

1987 ANNUAL EXHIBITION
Imperial College, London SW7 — 24 October 1987

Imperial College was chosen as the new venue for the Society's Annual Exhibition because it had a number of advantages over Chelsea Old Town Hall, where it had been held for many years previously. Car parking space had always been a problem in the congested King's Road area of Chelsea and with the closure of the only National Car Park close by, this meant even more problems. Over the years, the attendance at the exhibitions had been increasing, and it was felt that a larger room would be necessary. The number and size of exhibits was also increasing, so much so that last year there was very little table space for late-comers and the exhibits were crowded together in a very crushed disarray. It was hoped that the Sherfield room at Imperial College would overcome all of these difficulties and have other benefits besides. Falling attendance at the Annual Dinners might be halted and reversed if the dinner were to be held in a room close by on the evening after the exhibition.

As members and guests started to arrive at 10 o'clock, it was clear that the change was a good one. Car parking was cheap and easy; space for exhibits was no longer at a premium as the ten long series of tables allowed plenty of room; light was good, the room was bright and airy; refreshments were excellent and a bar brought a further atmosphere of civilized enjoyment.

According to the attendance book, numbers were down both of members and visitors, but exhibits were up both in numbers and quality; 164 are itemized in the ensuing report. The attendance at the dinner was significantly up on previous years, as 72 members and guests sat for an excellent meal.

Specimens selected for photography were taken to a separate room where Mr David Wilson was working. This was thought to be a better arrangement than the rather exposed tables on the stage at Chelsea Old Town Hall. Two plates comprising 30 species of butterfly, moth, fly and wasp show some of the splendid specimens shown this year; these plates will appear in a future issue of the Journal, when they can be printed along with other colour work.

The Society owes a debt of gratitude to the committee set up to organize the exhibition — John Owen, John Muggleton and especially Colin Hart, who despite still being without electricity and telephone following the fateful storm-force winds of October 16 (8 days previous), made the event a splendid success.

The following account of exhibits has been compiled by R.D.G. Barrington (British butterflies), B.F. Skinner (British Macrolepidoptera), J.M. Chalmers-Hunt (British Microlepidoptera), R.F. Bretherton (Foreign Lepidoptera), P.J. Chandler (Diptera), R.A. Jones (Coleoptera and Hemiptera), A.J. Halstead (other orders) and E.S. Bradford (Illustrations).

BRITISH BUTTERFLIES

After such a terrible summer it was very pleasing to see that members had, nonetheless, been able to produce some very fine aberrations, both as a result of field work and of experimental breeding. Such poor weather makes breeding butterflies something of a trial and several cases were heard of exhibitors losing interesting strains. However where results were obtained they were invariably of the greatest interest and added to the ever growing bank of knowledge that amateur entomologists have provided on the genetic basis of butterfly aberrations.

BAILEY, K.E.J. — (1). Two melanic aberrations of *Boloria selene* L. from the Cotswolds, 1987, one being an extreme form with hindwings largely black.

Homoeotic specimens of *Melitaea cinxia* L. and *Mellicta athalia* Rott., the latter with a large splash of orange across the underside of one hindwing.

(2). A large display illustrating Mr Bailey's continued work in the field of aberrations induced by temperature shocks on the early pupal stage of nymphalid butterflies. Species used included *Ladoga camilla* L., *Nymphalis polychloros* L., *Polygonia c-album* L., *Apatura iris* L., *Vanessa atalanta* L., *Cynthia cardui* L., *Fabriciana adippe* L., and *Argynnis paphia* L. Space does not permit detailed analysis, but a note on a very interesting set of results follows: *A. paphia* — a range of extreme melanics induced by low temperature shocks. Very few similar forms are produced by high temperature shocks although this must be responsible for the periodic bursts of these aberrations in the field (most recently in 1976/7 and 1986). A concept shown clearly by this exhibit is that the development of the melanism in nymphalids follows a reliable sequence such that one part of the pattern will not be affected without a part of the pattern earlier in the sequence being affected also, i.e. these temperature experiments do not produce a series of individuals with randomly blackened patterns as it may sometimes appear, although particular forms are not produced by particular temperatures.

BANNER, Dr J.V. — An extreme *Aglais urticae* L. ab. *conjuncta* Meub. caught at St Margaret's Bay, Kent, 1987.

BARRINGTON, R.D.G. — (1) *Maniola jurtina* L. taken in North Dorset in July, 1987, including females ab. *fracta* Zweigl., ab. *postmultifidus* Lipscomb affecting one side only and ab. *antiaurorolancia* Leeds with the upperside forewing fulvous greatly reduced on one side only.

(2) *Plebejus argus* L. ssp. *caernensis* Thompson from Gt Orme, North Wales where it swarms in its chosen spots. Some females were almost completely blue. *Coenonympha tullia* Mull. ab. *cockaynei* Hopkins from Shropshire. All taken June 1987.

BECCALONI, G. — A perfect, wild caught bilateral gynandromorph of *Ladoga camilla* L. taken July 1986. Probably unique and a tribute to the sharp eyes of the exhibitor.

BRETHERTON, R.F. — Historic, British caught examples of *Cyaniris semiargus* L. (1840s), *Aporia crataegi* L. (Bristol 1840 and Kent 1878) and *Maculinea arion* L. (1924/30, Cotswolds).

DENNIS, R.C. — Variation in *Hipparchia semele* L. from two localities including an extreme ab. *monocellata* Lpke male, a good male ab. *suffusa* Tutt and four female ab. *punctata* Aigner. A new aberration of *Maniola jurtina* L. (exhibited in 1986) with black streaks between the veins on the upperside of the hindwings.

ELSTON, Major H.J. — A beautiful male *Argynnis paphia* L. ab. *sifkai* Silbernagel with white ground colour from Hampshire, 1987. This very rare insect has turned up at least five times since 1981, probably all from the same woodland complex. Despite careful search only males have been found and this may be an example of a sex-controlled aberration as are f. *valezina* Esp. of *paphia* and f. *helice* Hübn. of *Colias croceus* Geoff. in which the genes coding for the aberration are activated only in the cellular environment of one sex (the female in the latter two examples). Equally, it may be a simple recessive or dominant in which, as in *Lysandra coridon* Poda ab. *foveri* South (a recessive), the females are, inexplicably, very difficult to find.

EMMET, Lt. Col. A.M. — *Melitaea didyma* (Esp.), one of two specimens taken by schoolboys at Fobbing Marshes, south Essex on 6.viii.86. Several others were seen and it is likely that a female, having been accidentally transported by sea, escaped and oviposited to give rise to a small generation of adults.

FARWELL, I.G. — A selection of aberrations including *Hipparchia semele* L. ab. *parviocellata* Lpke. from Portland, 1987 and some good *Lysandra coridon* Poda from past years including males ab. *melaina* Tutt, ab. *antistriata* B.&L. and *antidiscoelongata* B.&L. and a female ab. *inaequalis* Tutt (=ab. *roystonensis* B.&L.).

FENSOME, B. — Three *Lycaena phlaeas* L. ab. *radiata* Tutt and one ab. *obsoleta* Leeds and a superb albinistic male with all the darker markings replaced by silver with the copper ground colour unaffected. An extreme *Lysandra coridon* Poda ab. *inaequalis* Tutt — a female butterfly having the appearance of a gynandromorph, half of one hindwing being blue. The blue, however, is of the shade that occurs in *abssemisyngrapha* Tutt and *tithonus* Meigen not the shade of a male, and *inaequalis* is not a gynandromorph. A male ab. *ultrafowleri* B.&L. *Melanargia galathea* L. with the left hindwing suffused with black and a female *Maniola jurtina* L. with the lower half of the underside hindwing median band heavily suffused which may well be an extreme example of ab. *postmultifidus* Lipscomb.

HARMER, A.S. — A selection of minor, bred forms of *Colias croceus* Geoff. including an unnamed aberration with the forewing discoidal spot pulled out to a point. A nice *Lycaena phlaeas* L. ab. *oblitera* Scudder, two bred aberrations of *Hamearis lucina* L. (one transitional to ab. *obsoleta* Tutt and one ab. *semibrunnea* Osthelder) and a very beautiful *Lysandra coridon* Poda. ab. *ultrafowleri* — *marginio* B.&L. bred in the F₃ generation from a *fowleri* female. *Boloria euphrosyne* L., a specimen transitional to ab. *interligata* Cabeau and, of particular interest, a pair of wild-caught unnamed aberrations of *Lysandra bellargus* Rott. with a smokey brown suffusion over the underside obliterating the normal white areas. This aberration resembles ab. *pulla* B.&L. of *Lysandra coridon* Poda, although unlike *pulla* these *bellargus* have type uppersides.

JONES, A.M. — (1) A selection of butterflies showing considerable success in the breeding cage in 1987. Very interesting were three *Maniola jurtina* L. ab. *fracta* Zweigt bred in the F₁ from a similar parent. Roughly 27 of a brood of 74 were of this form but intermediates, and the difficulty of detecting this form in the male makes this a possible underestimate. We await the F₂ with interest. *Thecla betulae* L. ab. *fisonii* Wheeler (two female and one male) bred from wild collected ova. *Lycaena phlaeas* ab. *radiata* Tutt — a series of three of each sex bred in the F₁ from a similar parent. As this form is a simple recessive the parent male must have been heterozygous or homozygous also for this form. *Pararge aegeria* L. ab. *antico-excessa* Lpke — four examples of this unusual form with an extra apical spot bred in the F₁ from similar parent, 12 of the 17 in the F₁ were of this form. The F₂ emerging at the time of the exhibition, was showing a similar pattern. Probably a multifactor complex as in *Pyronia tithonus* L. ab. *excessa* Tutt.

(2) Two bred gynandromorphs — a mixed *Argynnis paphia* L., appearing halved but with smatterings of male colouration on the female side, and a very fine halved *Celastrina argiolus* L.

(3) Two wild caught (1987) *Aglais urticae* L. ab. *semiichneusoides* Pronin showing different extremes of this striking form.

MACFAYDEN, I. — Aberrations taken in Wiltshire, Surrey and Sussex 1984–7, including two magnificent *Argynnis paphia* L. ab. *ocellata* Spuler (Sussex 1984 and 1987), and a fine *Pyronia tithonus* L. ab. *subalbida* Vty, Three bred *Boloria euphrosyne* L. ab. *pitonii* Nitsche.

MCMAMARA, D.S.K. — Aberrations of *Aglais urticae* L. caught or bred in West London/Middlesex over the past few years including a captured specimen of an extreme form of ab. *lutea* Raynor with the ground colour almost white — a very rare form.

PAYNE, J.H. — An unusual aberration of *Aglais urticae* L. with reduced and streaked markings. A good, bred *Lasiommata megera* L. ab. *croesus* Stauder and various extreme melanics of *Polygonia c-album* L., *Argynnis paphia* L., *Inachis io* L. and *Vanessa atalanta* L. produced by temperature shock treatment.

On behalf of Mr S.W. Humphry a print of *Aphantopus hyperantus* L. showing ab. *chrysophalaros* Collier on the left side only, taken 1946. (This form was bred by Major A. Collier from a female taken by J.H. Payne in 1964 and proved to be a simple recessive.)

REVELS, R.C. — A strong exhibit of aberrations of *Lysandra coridon* Poda aberrations taken in Dorset and the Chilterns in the 1970s. Amongst the many shown were some extreme forms including a particularly good ab. *antidigitata* Courv. (Portland 1977), various ab. *parallela* B.&L. forms (Portland 1976/7) and a complete, perfect male ab. *caeca* Courv. — these complete *caeca* forms are very rare. Two pairs of ab. *fowleri* South (Portland) and a good male ab. *marginata* Tutt (Portland 1979).

RUSSWURM, A.D.A. and MIDDLETON, H.G.M. — Two specimens showing the effect of low temperature shocks on the early pupa. *Inachis io* L. ab. *belisaria* Ober. and a very extreme *Aglais urticae* L. ab. *semiichneusoides* Pronin with dark red-brown ground colour. Both were the only variants to emerge from whole nests of treated pupae.

STOKES, D. — Aberrations caught or bred in 1987. A most unusual *Polyommatus icarus* Rott. with the orange lunules on the underside of a male being replaced with black (I.O.W. May 1987), several *Lysandra coridon* Poda from Dorset including various male ab. *caeca* Courv. forms and two male ab. *ultrafowleri* B.&L. Two good female upperside '*striata*' forms of *Lycaena dispar* Haw. ssp. *batavus* Ober. with two spots on each forewing streaking to the discoidal. This species is now commonly bred in captivity and seems rather subject to this sort of variation. Inbreeding could produce some extreme forms.

TREW, D. — *Coenonympha tullia* Mull. ab. *lanceolata* Arkle and a fine, extreme melanic form of *Argynnis aglaja* L. from Wilts., 1987. The upperside was heavily peppered with black against a normal pattern. The underside had large silver spots at the base of the hindwing with all other silver spots obliterated and the forewings showed suffused black markings.

YOUNG, L.D. — A very fine exhibit illustrating the continued success of a three year (so far) breeding programme with very large broods of *Polyommatus icarus* Rott. Pure bred series of selected specimens were shown of ab. *basielongata* B.&L. (a dominant) and ab. *antiscoelognata* B.&L. (a recessive) from original females captured in 1984 and 1985 respectively. Crossing the two forms produced some very striking insects showing a combination of the two aberrations, although the *basielongata* character was a little less strongly developed than in the pure-bred series. Breeding so many large broods brought with it many problems, not least that of food supply and of predators. These combined with the difficulties invariably associated with intensive inbreeding emphasised the remarkable success of this project.

BRITISH MACROLEPIDOPTERA

AGASSIZ, Rev. D.J.L. — An extreme aberration of *Colostygia pectinataria* (Knoch) from Blair Atholl, Perthshire, on 2.vii.87.

BAKER, B.R. — An F₂ generation of *Diaphora mendica* (Cl.) f. *rustica* (Hbn.) having confluent spotting of both fore and hindwings, and including several extreme

rayed examples. A selection of male *D. mendica* bred from crossing an Irish female with an English male. A specimen of *Trisateles emortualis* (D. & S.) taken at Caversham, VC23, on 6.vii.87.

BELL, R.A. — A selection of bred or caught series of local species taken during the 1980s which included both *Lithophane socia* (Hufn.) and *L. semibrunnea* (Haw.) bred from females taken at Sparsholt, Hants., and *Xylena exsoleta* (L.) taken at Rannoch, Perthshire, in September and October 1984.

BRETHERTON, R.F. — Old specimens of species or subspecies now believed to be extinct in the British Isles. These included examples of *Acronicta strigosa* (D. & S.) from Cambridge during the last century, *Lithophane furcifera suffusa* (Tutt) from Llantrisant, Glamorgan, in 1878 and *Trachea atriplicis* (L.) from Waterbeach, Cambs., between 1880 and 1893.

CLARKE, Sir CYRIL — An exhibit titled 'Evolution in reverse' showing the effect of cleaner air from 1959 to 1987 on *Biston betularia* (L.) at Wirral, Cheshire.

CLARKE, Dr J. — A selection of local and aberrant species taken or bred during 1987. From St Ives, Hunts, were single examples of *Heliothis armigera* (Hbn.) on 4.x, *Mythimna vitellina* (Hbn.) on 24.ix, a mixed gynandromorph of *Agrotis puta* (Hbn.) on 27.v, and from Hoads Wood, Kent, a striking aberration of *Xestia triangulum* (Hufn.) having a black central patch on the forewing. Living larvae of *Agrius convolvuli* (L.) bred from a female taken at Plymstock, Devon, on 20.ix.87.

COLLINS, G.A. — *Xanthorhoe fluctuata* (L.) ab. *costovata* (Haw.) from South Croydon, Surrey on 29.viii.87.

CORLEY, M.F.V. — *Hyles gallii* (Rott.) from Faringdon, Oxon., on 26.vii.87 and an extreme aberration of *Orthosia gothica* (L.) also from Faringdon taken on 16.iv.87.

CRONIN, A.C. — A case of macrolepidoptera which included variable series of *Callimorpha dominula* (L.) and *Lasiocampa quercus* (L.)

DOBSON, A.H. — Three specimens of *Rhodometra saccharia* (L.) taken in the New Forest, Hants, on 24.viii.87. Aberrant and local species included *Thera obeliscata* (Hbn.) ab. *mediolucens* Ross. from Camborne, Cornwall on 10.x.86 and *Rhyacia simulans* (L.) from Southwold, Suffolk, on 1.viii.87.

DYKE, R. — A series of *Hadena perplexa perplexa* (D. & S.) from Suffolk, Kent and Devon showing geographical variation. Bred specimens of *Thalera fimbrialis* (Scop.) from a female taken at Dungeness, Kent, in 1986.

EMMET, Lt.Col. A.M. — Local and immigrant species taken at light at Saffron Walden, Essex during 1987 were: *Catarhoe cuculata* (Hufn.) on 24.viii., *Rhodometra saccharia* (L.) on 2.x. and *Mythimna vitellina* (Hbn.) on 16.ix. From Lewes, Sussex, were three *Catarhoe cuculata* (Hufn.) on 14–16.vii.87; and single specimens of *Lithosia quadra* (L.) on 15.vii.87 and *Meganola albula* (D. & S.) on 14.vii.87.

FAIRCLOUGH, A.J. and R. — Local Macrolepidoptera taken or bred during 1987; of special interest were a bred series of *Eupithecia insigniata* (Hbn.) from Norfolk and a specimen of *Idaea vulpinaria atrosignaria* Lempke from Portland, Dorset, on 3.vii.

FARWELL, I.G. — From the New Forest, Hants., three male *Diacrisia sannio* (L.) showing extremes of variation in the black scaling of the hindwings.

FOSTER, A.P. — A selection of local moths from southwest Cornwall included *Chlorissa viridata* (L.) from Goonhilly Downs on 21.vi.81; *Eilema sororcula* (Hufn.) from Gweek on 22.v.81; *Leucochlaena oditis* (Hbn.) from Mawnan Smith on 13.x.86 and *Conistra rubiginea* (D. & S.) from Mawnan Smith on 27.x.80.

GIBSON, Dr C.W.D. — Offspring of the banded aberration of *Cyclophora linearia* (Hbn.) exhibited and photographed at last year's Exhibition. Several attempts at obtaining an F₂ were tried but the resulting eggs proved infertile.

HART, C. — A specimen of *Euxoa tritici* (L.) from Buckland, near Reigate on 25.viii.82; a very local species in this part of Surrey.

JENKINS, A. — An unusually heavily marked *Drepana falcataria* (L.) from Shabbington, Oxon., on 27.v.87. Specimens of *Nonagria typhae* (Thunb.) ab. *fraterna* (Treit.) bred from pupae collected near Bolsover, Derbyshire in 1987. Migrant species taken in 1987 were: From Portland, Dorset — *Agrius convolvuli* (L.) on 23.viii. (two); and 20.ix; and *Mythimna vitellina* (Hbn.) on 23.viii; and from Chardstock, Devon — *A. convolvuli* on 23.viii and *M. vitellina* on 20.ix.

KNILL-JONES, S.A. — Immigrant Lepidoptera taken during 1987 at Freshwater, I.O.W. were *Agrius convolvuli* (L.) on 20.ix; *Spodoptera exigua* (Hbn.) on 14.ix; *Diachrysia orichalcea* (F.) on 20.ix; *Heliothis armigera* (Hbn.) on 5.x and a small series of *Rhodometra sacraria* (L.) taken in late August and early September.

LANGMAID, Dr J.R. — A specimen of *Heliothis armigera* (Hbn.) from Southsea, Hants., on 19.ix.87.

McCORMICK, R.F. — Photographs illustrating the immature stages of *Sabra harpagula* (Esp.).

McCORMICK, R.F. and PENNEY, C.C. — A large display showing all the Macrolepidoptera recorded in the gardens of both exhibitors at North Cheam, Surrey, and Chelmsford, Essex. The exhibit was designed to show those species common to both sites and those which as yet had only been recorded from one of the gardens.

McCLENAGHAN, I. — A pink form of *Comibaena bajularia* (D. & S.) taken at light at Ingrave, Essex, on 16.vii.86.

MACFADYEN, I.D. — A specimen of *Agrius convolvuli* (L.) found during the daytime at rest on a building in Harrogate, North Yorkshire on 24.ix.87.

MACNULTY, Dr B.J. — A selection of interesting moths taken on the Gower Peninsula, Glamorgan, these included three *Colostygia multistrigaria* (Haw.), Rhossili, 5.iv.87 (new record for Gower); *Semiothisa wauaria* (L.), Rhossili, 24.vii.87 (two previous records); two specimens of *Idaea dimidiata* (Hufn.), Rhossili, 25.vii.85 (only one previous record from Oxwich); and *I. trigeminata* (Haw.), from University College Swansea Campus on 13.vii.73.

NASH, S. — Local species taken during 1986 and 87 included several *Rhodometra sacraria* (L.) taken at Fernham, Oxon, in August and October 1987; *Agrius convolvuli* (L.) from Fernham on 3.ix.87; *Euphyia biangulata* (Haw.) from Savernake, Wilts., on 22.vii.87; *Mythimna putrescens* (Hbn.) and *Euxoa obelisca* (D. & S.) from Branscombe, Devon, on 10.viii.87; and a pale and yellowish aberration of *Abraxas grossulariata* (L.) from Portland, Dorset, on 8.vii.87.

O'KEEFE, D. — Aberrations included a striking male *Angerona prunaria* (L.) having the right forewing whitish-buff and the other three wings unicolorous chocolate brown, from Hamstreet, Kent, on 29.vi.87; A melanistic *Paradarisa extersaria* (Hbn.); from Petts Wood, Kent, on 29.v.87; two blackish marked *Dichonia aprilina* (L.) from Seal Chart, Kent on 13 & 14.x.86; a unicolorous *Orthosia cerasi* (F.) [*stabilis* (D. & S.)] from Hamstreet, Kent, on 13.iv.87; and an extreme melanic specimen of *Mesoligia furuncula* (D. & S.) from Petts Wood, Kent, on 2.ix.86.

PARSONS, M. — A selection of moths taken during 1986 and 1987 included *Scopula rubiginata* (Hufn.) and *Noctua orbona* (Hufn.) from the Breck District; *Idaea muricata* (Hufn.) from Dersingham Bog and Roydon Common, Norfolk; *Euxoa obelisca* (D. & S.) from Eastbourne, Sussex, and *Senta flammea* (Curt.) from Foulden Common, Norfolk.

PELHAM-CLINTON, E.C. — A presumably immigrant *Idaea ochrata* (Scop.) taken at light at Axminster, Devon, on 21.vii.87.

PENNEY, C.C. — An unusual banded form of *Alcis repandata* (Cl.) from Tintern, Monmouthshire, in 1987.

PICKLES, A.J. and C.T. — Selected species taken or bred in 1987 included a heavily suffused *Abraxas grossulariata* (L.) from Portland, Dorset; a short variable series of *Simyra albovenosa* Goeze bred from Norfolk; and a series of *Tethea* or (D. & S.) showing the differences between the English, Irish and Scottish races.

PLANT, C.W. — Some interesting captures at light from the Bishops Stortford area, Herts., in 1987 were *Lithophane leautieri hesperica* (Bours.); *Eupithecia millefoliata* (Ross.), new to Hertfordshire; *Hypena rostralis* (L.) possibly new to north Hertfordshire; *Schrunkia costaestrigalis* (Steph.) from Sawbridgeworth Marsh on 1.viii and new for the district; and *Ennomos autumnaria* (Werneb.), a species now well established in parts of the country.

PLATTS, J. — Two examples of *Apamea oblonga* (Haw.) bred from pupae located under clumps of red fescue grass at Sandwich, Kent; specimens of *Apamea unanymis* (Hbn.) bred from pupae found in the dead stems of angelica at Stodmarsh, Kent, in May 1986; *Lithophane socia* (Hufn.) bred ex females from Hailsham, East Sussex; and typical examples of *Egira conspiciaris* (L.) bred from Ross-on-Wye, Herefordshire.

PRATT, C. — A specimen of *Pseudoips fagana britannica* Warr. with primrose yellow patches at the dorsum and subterminal fascia of the forewing, taken in Friston Forest, Sussex, on 12.vii.86.

RUSSWURM, A.D.A. and MIDDLETON, H.G.M. — From Boldre, Hants, a melanic *Lycia hirtaria* (Cl.) on 28.iv.87 and a melanistic *Biston strataria* (Hufn.) on 24.iv.87. From Brockenhurst, Hants., *Diachrysis orichalcea* (F.) on 15.viii.87; *Agrius convolvuli* (L.) on 15.ix.87; and a melanic aberration of *Euxoa tritici* (L.) on 28.viii.87.

SCANES, J.T. — A small selection of the local specialities to be found at Dungeness, Kent, taken during 1987. From a lesser known locality, Pentewan Bay, Cornwall, were examples of *Mythimna putrescens* (Hbn.), *M. l-album* (L.) and *Agrotis trux lunigera* Steph. taken in the second week of August; and from Haslemere, Surrey, a most striking aberration of *Tetheella fluctuosa* (Hbn.) captured on the 7.vii.87.

SIMSON, Brig. E.C.L. — A variable series of *Laothoe populi* (L.) showing the result of in-breeding over three years and a female *Euproctis similis* (Fuess.) displaying vestigial male markings.

SKINNER, B. — A series of *Agrotis ripae* (Hbn.) bred from north and south Wales, Somerset and Isle of Wight showing local variations. Single examples of *Heliothis armigera* (Hbn.) from Beddgelert, Caernarvonshire, on 14.vii.87 and *Diachrysis orichalcea* (F.) from Addington, Surrey, on 25.viii.87. A selection of aberrations taken in 1987 which included a melanic *Melanthia procellata* (D. & S.) from Chilgrove, Sussex on 5.vii; a light coloured form of *Luperina nickerlii* (Frey.) having a dark central cross band on the forewing from Tillingham, Essex on 21.viii; and a series of *Agrotis clavis* (Hufn.) displaying extreme variation from Surrey and Suffolk.

SMITH, E.G. and M.H. — Aberrant, migrant and local moths included *Chrysodeixis chalcites* (Esp.) from Portland, Dorset, on 13.ix.87; the first Wiltshire record of *Lampropteryx otregiata* (Metc.) taken on 23.viii.84; *Chloroclysta miata* (L.) from Ashton Common, Wilts.; and a very late record of *Diachrysis chrysitis* (L.) taken on 3.x.87.

SOKOLOFF, P.A. — Two generations of *Ennomos alniaria* (L.) bred from an extreme melanic female taken at Stodmarsh, Kent, in 1985.

STERLING, M.J. — A small selection of moths taken during a recent survey at an East Midlands Power Station; these included *Mythimna obsoleta* (Hbn.) and *Chilodes maritimus* (Tausch.) both new records for Nottingham; and specimens of *Rhyacia simulans* (Hufn.) and *Perizoma sagittata* (F.)

WAITE, P. — The first British record of *Polymixis gemmea* (Treit.) taken at light at Cockpole Green, Berks, on 1.ix.79. The species which bears a superficial resemblance to *Hadena albimacula* (Borkh.) is widespread on the Continent. It is not normally a migratory species and its presence in Berkshire is probably the result of accidental importation.

WARING, P. — Specimens of the usually coastal *Agrotis vestigialis* (Hufn.) taken this year in Woodwalton and Chippenham Fens, Cambs., and Cothill Fen, Oxon. Two examples of the yellow form of the male *Philudoria potatoria* (L.) from Chippenham Fen on 20.vii.87 and a specimen of *Agrius convolvuli* (L.) from Chippenham Fen on 17.ix.87.

WEDD, D.L. — A large display of *Noctua comes* (Hbn.) from the Island of Lundy showing a wide range of variation and including many extreme ab. *sagittifer* Cockayne, a banded form normally associated with the Isles of Scilly but also now a dominant form on Lundy. An unusually late record of *Abraxas sylvata* (Scop.) taken on 17.ix.86 and a specimen of *Cucullia lychnitis* Ramb. collected as a larva at Marlow, Bucks. in the summer of 1982, but not emerging until May 1987. Two extreme aberrations were *Hypena rostralis* (L.) with light brown shading along the costa and outer margin of the forewing taken at Marlow on 15.ix.73 and *Xanthorhoe designata* (Hufn.) having a much reduced central band on the forewing taken at Tavistock, Devon, on 28.viii.64.

WEST, B.K. — A selection of aberrant moths, the most noteworthy being *Ligdia adustata* D. & S. ab. *plumbosa* Cockayne, the only second record of this melanic form, taken at Brockenhurst, Hants, on 29.iv.1987.

WINTER, P.Q. — Interesting captures from Yorkshire included *Xanthorhoe quadrfasiata* (Cl.) from Muston; *Lycia hirtaria* (Cl.) from near Selby; *Acherontia atropos* (L.) found on a wall in Filey on 2.vii.87; and *Rhodometra sacraria* (L.) bred from a female taken at Muston on 20.viii.87.

YOUNG, D. — A selection of the more interesting species taken during 1987 at Dungeness and Hamstreet, Kent. From Gussetts Wood, Bucks., examples of *Ptilodentella cucullina* (D. & S.) and *Ptilophora plumigera* (D. & S.); and from Odiham Common, Hants., a specimen of *Adscita statices* (L.) taken on the BENHS field meeting in June.

MICROLEPIDOPTERA

AGASSIZ, Rev. D.J.L. — *Lampronia* species, Shapwick Heath NNR, Somerset, 23.vi.87. *Homosetia* species, Grays, Essex, 30.ix.86; indoors, new to Britain; the species is known in N.America, but it is uncertain whether it is named. *Acrolepiopsis assectella* Zell., a series bred from onion, Thorpeness, Suffolk, ix.87. *Monochroa hornigi* Stdgr., Grays, Essex, 6.vi.87.

BLAND, Dr K.P. — (1) Species new to the Isle of Coll (Inner Hebrides). *Pammene rhediella* Cl., reared from apples, Grishipoll (VC103), coll. 23.vii.86, em. 29.v.87. *Cydia gallicana* Guen., reared from *Daucus carota*, Cornaigbeg (VC103), coll. 29.ix.86, em. 23.vii.87. *Gypsonoma sociana* Haw., to mercury vapour light, Arinagour (VC103), 12/13.vii.87.

(2) Interesting Scottish Microlepidoptera. *Nematopogon pilella* D. & S., Forest Lodge, Glen Tilt (VC88), 14.vi.86; Tulloch Moor, Aviemore (VC94), 20.vi.87. *Psychodes verhuella* Bru., rediscovered in Scotland after 109 years: Falls of Fender, Blair Atholl (VC88), larvae on *Asplenium trichomanes*; MacGregor's Leap, Glen Lyon Woods (VC88), larvae on *A. trichomanes*, 27.ix.87. *Acrolepiopsis betulella* Curt., a third British site, reared from Wild Ransoms, Allt Cruiniche, Bridge of Awe, Argylls (VC98), coll. 23.vii.87, em. 20.viii.87. *Bucculatrix maritima* Stt., reared from Sea-Aster, Luffness Marsh, E. Lothian (VC82), coll. 28.vi.87, em. 18.vii.87.

BRADFORD, E.S. — Kentish Microlepidoptera. (1) Pean Hill, Whitstable: *Adoxophanes orana* F.v.R. 20.viii.87; *Monochroa palustrella* Dgls, 7.vii.87; *Bisigna procerella* D. & S. 20.viii.87; *Rhynchopacha mouffetella* L. 13.viii.87.

(2) Down Bank, Julliberrie Down: *Argyresthia sorbiella* Treit. 12.vii.87.

(3) Chisleth Colliery: *Aethes margaritana* Haw. 12.vii.87.

(4) Nagden: *Oegoconia canadensis* P.-Gorj. 22.viii.87.

(5) Childs Forstal Wood: *Nemapogon clematella* Fabr. 16.vii.87.

CHALMERS-HUNT, J.M. — *Pachythelia villosella* Ochs., two males, one female bred Dorset, vii.87, together with larval cases. *Synopacma sangiella* Stt., Trottercliffe, Kent, taken at light, 29.v.87. *Athrips rancidella* H.-S., two among many others of this species reared for the first time in Great Britain in vii.87 from larvae collected from *Cotoneaster horizontalis* at West Wickham, Kent v.87. *Gymnancyla canella* Zell., Sandwich, Kent, melanic form reared 15.vii–2.viii.87, from larvae on *Salsola kali* collected ix.86. *Myrmecozela ochraceella* Tengst., Camghouran, Perthshire, 29.vi.87, together with the ant with which it is associated. *Swammerdamia compunctella* H.-S., Kyle Wood, Northumberland, 1.vii.87. *Lampronia fuscata* Zell., Blean Woods, Kent, reared 6.v.87 from a gall on birch twig collected iv.87.

CORLEY, M.F.V. — (1) From Oxfordshire, reared or captured in 1987. *Caloptilia hemidactylella* D. & S., Wychwood Forest (VC23) at mercury vapour light, 24.iv.87. *Aploa palpella* Haw., Blenheim Park (VC23), reared from moss on oak trunks 11–13.vii.87. *Metzneria metzneriella* Stt., Cothill near Abingdon (VC22), reared from *Serratula tinctoria* [a previously unrecorded foodplant? J.M.C.-H.] 20.viii.87. *Coleophora versurella* Zell., Pucketty Farm, Faringdon (VC22), at mercury vapour light, 15.vii.87. *Cnephasia genitalana* Pier. & Metc., Pucketty Farm, Faringdon (VC22), 12.viii.87. *Ochsenheimaria vacculella* F.v.R., Near Godstow (VC22), in a crevice of poplar trunk, 7.viii.87. *Anacamptis populella* Cl., Hornsey near Banbury (VC23), reared from *Genista tinctoria* [This is an extraordinary foodplant for this normally *Populus* and *Salix* feeding species — J.M.C.-H.], 4.vii.87. *Agriphila tristella* D. & S., ab., Uffington near Faringdon (VC22), at mercury vapour light, 12.viii.87. *Dioryctria abietella* D. & S. [?], ab., Buckland Warren near Faringdon (VC22), at mercury vapour light, 31.vii.87.

(2) From Tresco, Isles of Scilly. *Nothris congressariella* Bru., reared from *Scrophularia scorodonia*, 20.v–7.vi.87.

DOBSON, A.H. — *Agonopterix bipunctosa* Curt. (det. D.H. Sterling), Bartley Heath Reserve, Hook, Hants, three at actinic light trap.

EMMET, Lt.Col.A.M. — Essex: *Stigmella samiatella* (Zell.) reared 10.iii.87 from a mine taken at Riddles Wood (VC19) on *Castanea sativa*. Of the oak-feeding nepticulids, *S. samiatella* is the only one in Britain to feed also regularly on *Castanea*. *Monopis weaverella* (Scott) Lamarsh (VC19), 15.viii.87, the 4th Essex record. *Caloptilia rufipennella* (Hübner). This species, which is rapidly extending its range in Britain, is now common in north-west Essex. Up to four a night may come to a

mercury vapour trap before, and in smaller numbers after, hibernation. *Caloptilia azaleella* (Brants) reared from a larva taken out of doors at Harold Hill (VC18) 8.v.87; adult 25.v.87, new to Essex. *Parornix carpinella* (Zell.) reared from larvae taken at Chalkney Wood (VC19), 10.ii.87 (forced) and 8.vi.87 (not forced). Added to the British list in 1986. *Parornix fagivora* (Zell.) included for comparison, reared 11.iii.87 from Ellenden Wood, Kent (VC15). *Prochoreutis myllerana* (Fabr.) Sawbridgeworth Marsh Nature Reserve, 15.vi.87. The reserve is partly in Essex and partly in Hertfordshire and the species is new to VC19 (north Essex) and VC20 (Hertfordshire). *Zelleria hepariella* (Stt.) Saffron Walden at mercury vapour, 3.ix.87. The second Essex record. *Metriotes lutarea* (Haworth). Belhus wood, 8.v.87. The only known Essex locality, where it is abundant. *Coleophora caespitiella* Zell. High Wood, Duddenhoe End (VC19), reared mainly from *Juncus articulatus*, 6–14.vi.87 from larval cases taken in September 1986. Reputedly rare, but common in the woods of north Essex. Thurnall described the life history in 1921 from larvae taken near Wanstead (VC18). *Depressaria weirella* Stt. Fobbing Marshes, reared 15–22.vi.87 from larvae collected 6.v.87 on Fobbing Marshes, the locality where *Melitaea didyma* (Esper) was taken.

Churchill, Somerset: *Scythris crassiusculella* (Hbn.) (*fletcherella* Meyrick) reared from *Helianthemum*, 29.vi–3.vii.87. *Celypha woodiana* (Barrett), reared from *Viscum*, 28.vi.87.

Barham, Kent: *Teleiodes wague* (Nowiki) reared from *Betula*, this being the first definite record for this foodplant. The larva was collected on 7.ix.85 and the adult emerged 14.v.87, after overwintering twice.

Queen's Wood, Herefordshire, 14.ix.86. *Coleophora alnifoliae* Barasch adults emerged 8–28.vi.87. *Cryptoblabes bistriga* (Haw.) reared 1.v.87 from a larva in a spinning on *Quercus*.

FAIRCLOUGH, A.J. and R. — *Eudarcia richardsoni* Wals., Portland, Dorset, imago taken 3.vii.87; piece of stone showing larval case. *Coleophora caespitiella* Zell., E. Sussex, 18.vi.87. *Acrolita subsequana* H.-S., Portland, Dorset, bred from larvae found 29.vi.87. *Platyedra subcinerea* Haw., Portland, Dorset, bred from larvae found 1.vii.87. *Palpita unionalis* Hbn., Leigh, Surrey, a live specimen which came to light trap 20/21.x with two others.

FINCH, G.L. and M.A. — (1) Leicestershire micros: *Coleophora sylvaticella* Wood, Swithland Wood (SK5312), case on *Luzula sylvatica* 7.ix.85, moth emerged 7.vi.86. *Agriphila latistria* Haw., Diminsdale NR.LRTNC reserve, at mercury vapour light, 21.viii.87, no recent Leics. records. *Pseudosciaphila branderiana* L.f. *wahlbomiana* L., Cloud Wood (SK4121), at mercury vapour light, no recent Leics. records. *Cryptoblabes bistriga* Haw., Old Brake Spinney (SK491012), two at mercury vapour light, no recent Leics. records.

(2) Welsh micros: *Nomophila noctuella* D. & S., Dale Fort, Pembrokeshire, 1.ix.87. *Phalonidia gilvicomana* Zell. (det. J.M.C.-H.), Wyndd Cliff, Monmouthshire (ST529974), 29.vi.85. *Dolicharthria punctalis* D. & S., Dale Fort, Pembrokeshire, at mercury vapour light, 28.viii.87; [new to Wales?]. *Udea ferrugalis* Hb., Dale Fort, at mercury vapour light, 29.viii.87.

GIBSON, C.W.D. — *Cochylis flaviciliana* Westw., Upper Seeds, Wytham, Oxfordshire, 1987. *Coleophora silenella* H.-S., Upper Seeds, Wytham, Oxfordshire, 1987. *Yponomeuta rorella* Hb., Wytham, Oxfordshire.

HALL, N.M. — *Phyllonorycter* spp. from mines collected in Childs Forstal Wood, Kent on the 1986 post-exhibition field meeting: *P.mespilella* Hbn. from *Sorbus torminalis* and *P.cydoniella* D. & S. from crab apple were new for the wood.

Micropterix aureatella Scop., Cwm Woods, Aberystwyth, Cardigan (VC46), beaten from sycamore flowers; Talybont (VC46), sitting on bilberry; *Pandemis cinnamomeana* Treit., Talybont (VC46), bred from larva beaten from oak. *Microthrix similella* Zinck., Bartley Heath, Hants, at mercury vapour light; Bagley Wood near Oxford (VC22), at mercury vapour light. *Argyresthia goedartella* L. and *A. brockeella* Hb., both bred from larvae found under birch bark, Aldermaston Park, Berks, 12.iv.87.

HECKFORD, R.J. — *Stigmella filipendulae* Wocke, Kynance Cove, Cornwall, 5.ix.87, ex l. *Filipendula vulgaris*. *Bedellia somnulentella* Zell., Kennack Sands, Cornwall, 1 & 7.ix.87 ex l. *Calystegia soldanella* (previously unrecorded foodplant). *Phyllonorycter roboris* Zell., Fingle Bridge, Devon, 14–18.iv.87, ex l. *Quercus* sp.; Hembury Woods, Devon, 14.iv.87, ex l. *Quercus* sp. *Tebenna micalis* Mann, a newly recognized British species, The Warren, near Noss Mayo, Devon, 30.viii.87, cocoon on *Pulicaria dysenterica* (which contained a dead pupa which was dissected to confirm identification). *Coleophora ochrea* Haw., Durdham Downs, Bristol, 1.viii.87, ex l. *Helianthemum chamaecistus*. *Bryotropha basaltinella* Zell., Wytham, Oxford, 6.vi.87, ex l. *Tortula muralis*. *Schiffermuelleria grandis* Desv., near Canonteign, Devon, 1.vii.87, second Devon specimen. *Aplota palpella* Haw., Ashclyst Forest, Devon, 25 & 29.vii.87, ex l. *Hypnum cupressiforme* (?) on *Fagus sylvatica*; new county record. *Cochylis pallidana* Zell., Kynance Cove, Cornwall, 13.vi.87. *Aphelia unitana* Hb., Bucks Mills, Devon, 28 & 30.v.87 ex l. *Rumex acetosa* and 27.v.87 ex l. *Heraclium sphondylium*. *Celypha woodiana* Barr, Churchill, Somerset (locality courtesy of Rev. D.J.L. Agassiz), 23–27.vi.87 ex l. *Viscum album*. *C. rurestrana* Dup., Ilfracombe, Devon, 10.vii.87; third and fourth British specimens. *Acrolita subsequana* H.-S., Slapton, Devon, 12–14.viii.87, ex l. *Euphorbia paralias*. *Eucosma hohenwartiana* D. & S. f. *parvulana* Wilkinson, Gwithian, Cornwall, 13.viii.87. *Pammene inquilana* Fletch., near Canonteign, Devon, 21.iv.87; new county record. *Leioptilus carphodactyla* Hb., Churchill, Somerset, 29.v.87, ex l. *Inula conyza*.

JEWESS, P.J. — *Cydia corollana* Hb., Burnt Oak Wood, Ham Street, Kent. Previously considered to be extinct in Britain, with only one other British specimen from Whittlesey Mere, c.1850. The larva feeds on longhorn beetle galls on aspen.

KNILL-JONES, S.A. The following taken at mercury vapour light at Freshwater, Isle of Wight. *Ostrinia nubilalis* Hb., female, 14.vii.87.

LANGMAID, Dr J.R. — *Incurvaria masculella* D. & S., Wickham, Hants., pale specimen, 2.v.87. *Lampronia flavimitrella* Hb., Hamstreet, Kent., two, 4–5.vi.87. *L. fuscata* Tengst., Whixall Moss, Salop., one bred. *Sterrhopterix fusca* Haw., Whixall Moss, Salop., one bred. *Betula*, 1987, and cases. *Niditinea piercella* Bent., Havering-atte-Bower, Essex, four bred from bird's nest, 1987. *Ochsenheimeria vaculella* F.v.R., Southwick, Hants., 19.vii.87. *Parornix carpinella* Frey, Ham Street, Kent, bred 1987. *Phyllonorycter nigrescentella* Logan, Branscombe, Devon, two bred *Lathyrus pratensis*, 1987, and mines. *Coleophora ochrea* Haw., Gloucestershire, four bred, 1987 and cases. *Aplota palpella* Haw., Savernake Forest, Wilts., four bred 1987. *Agonopterix capreolella* Zell., Ventnor, I.O.W., *Pimpinella saxifraga*, four bred 1987. *Monochroa* sp. (apparently undescribed), East Mersea, Essex, mines with larvae in *Scirpus maritimus* collected 1.x.86, moths emerged early June 1987. *Psamathocrita argentella* P. & M., Hayling Island, Hants., four 13.vi.87. *Glyphipteryx linneella* Cl., Southsea, Hants., 10.ix.87. *Scythris crassiuscula* H.-S., Gloucestershire, two bred from *Helianthemum*, 1987. *Aethes williana* Brahm, Grays, Essex, two bred from *Daucus* 1987. *A. margaritana* Haw., Faversham, Kent,

two bred *Achillea millefolium*, 1987. *Celypha woodiana* Barr., Somerset, four bred from *Viscum*, 1987. *Olethreutes arcuella* Cl., Harewood Forest, Hants., 11.vii.87. *Cydia caecana* Schläg., Salisbury Plain, Wilts., two 5.vii.87. *Pselnophorus heterodactyla* Müll., Gloucestershire, two bred *Mycelis muralis*, 1987.

MANNING, D.V. — Species from Bedfordshire. *Lobesia botrana* D. & S., West Wood, Knotting, 21.viii.87. *Ethmia dodecea* Haw., West Wood, Knotting, 26.vii.87. Both *L.botrana* and *E.dodecea* at mercury vapour light. *Metzneria aprilella* H.-S., Cockayne Hatley, in Rothamsted trap 1.vii.86. *Phycitodes saxicola* Vaugh., Houghton Regis, 17.viii.85. *Cochylis flaviciliana* Westw., Houghton Regis, 26.vii.85. *Commophila aeneana* Hb., swept from cutting slopes at three sites: Thurleigh (roadside), 27.vi.87, Sewell (abandoned railway lines), 26.vi.87, Old Warden Tunnel (abandoned railway lines), 28.vi.85.

NASH, S. — *Evergestis extimalis* Scop., Branscombe, Devon, 10.viii.87. *Microthrix similella* Zinck., Bagley Wood, Oxfordshire, 4.vii.87. *Schoenobius gigantella* D. & S., Dungeness, Kent, 6.vii.87. *Cydia caecana* Schläg., Fernham, Oxfordshire, 25.vi.86. *Pyralis lienigialis* Zell. Fernham, 3.vii.86. *Euzophera cinerosella* Zell., Fernham, 7.vii.87. *Palpita unionalis* Hb., Fernham, 20.x.87. *Phlyctaenia perlucidalis* Hb., Fernham, 12.vii.87.

O'KEEFE, D. — *Cryptophlebia leucotreta* Meyr., Petts Wood, Kent, at mercury vapour light, 5.x.87. An African tortricid moth, a pest of citrus and other fruits, occasionally bred in Britain from imported oranges.

PALMER, S.M. — A selection recorded in Wiltshire (South). *Opostega salaciella* Treit., Dinton, 13.vii.87. *Adela cuprella* D. & S., 16–24.iv.87. *A.croesella* Scop., Stockton Down, 14.vi.86; since then recorded in three other 10-km squares in the same VC (VC8). *Incurvaria praelatella* D. & S., Chase Wood, 9.vi.85. *Lampronia oehlmanniella* Hb., Dinton, 19.v.87. *Elachista poae* Stt., Dinton, larvae on *Glyceria maxima*, 1987. *Ethmia bipunctella* Fabr. *Cochylis flaviciliana* Westw., Salisbury Plain, 16.viii.86. *Griselda stagnana* D. & S., Boscombe Down, 24.iv.87, flying in midday sun on a disused railway embankment. *Cydia caecana* Schläg. Blackball Firs, 30.v.84; this species has now been recorded in four separate locations on Salisbury Plain, and in 1987, Dr J. Langmaid and the exhibitor found a sizeable colony at Shewton. *Phlyctaenia perlucidalis* Hb., 4.vii.87.

PARSONS, M. — A small selection noted during 1986 and 1987. *Cydia pallifrontana* L. & Z., Bedford Purlieus, Northants. and near Wakerley, Northants. *Ethmia dodecea* Haw., Bedford Purlieus. *E.funereola* Fabr., Chippenham Fen NNR, Cambs., bred from larvae on comfrey. *Nascia ciliaris* Hb., Ramparts Field, Suffolk. *Evergestis extimalis* Scop., Brecks, Suffolk. *Philedone gerningana* D. & S., Rodyon Common, Norfolk.

PELHAM-CLINTON, E.C. — *Lampronia fuscataella* Tengst., Epping Forest, Essex, 2.v.87, from gall on birch, with gall. *Ischnoscia borreionella* Mill., Portland, Dorset, 15.viii.87; rediscovered after 60 years. *Phyllonorycter nigrescentella* Logan, Branscombe, Devon, two bred viii.87 from mines on *Lathyrus pratensis*, an unusual foodplant; with mines. *Coleophora alnifoliae* Bar., Rannoch, Perthshire, 23.vi.51, only recently identified; new to Scotland; compared with two *C.milvipennis* Zell., Culmstock, Devon, bred 16.v.87 from unusually long (11 mm) cases on birch. *Aplota palpella* Haw., Savernake, Wilts, bred 27.vi.87 from larvae on *Hypnum cupressiform.* *Agonopterix capreolella* Zell., Ventnor, Isle of Wight, bred 21.viii.87 from larva on *Pimpinella*. *Monochroa* sp., apparently undescribed, E. Mersea, Essex, two bred v.vi.87 from larvae on *Scirpus maritimus*. *Teleiodes wagae* Haw., Peasmarsh, E. Sussex and Hamstreet, Kent, vi.87. *T.sequax* Haw., Tennyson Down, Freshwater,

Isle of Wight, 4.viii.87, two whitish forms with normal. *Pammene ignorata* Danilevsky & Kuznetsov, Axminster, Devon, 23.vi.86; new to the British Isles. *Platytes alpinella* Hb., Axminster, Devon, two 14.vii.87; Horsmonden, Kent, one 15.vii.87; presumed immigrants. *Homoeosoma nebulella* D. & S., Axminster, Devon, 1.ix.87; a possible immigrant. *Pselnophorus heterodactyla* Hüll., Cranham, Glos., three bred vi.87 from larvae on *Mycelis muralis*.

PLANT, C.W. — *Ostrinia nubilalis* Hb., Bishop Stortford, Hertfordshire, female at mercury vapour light 15.vii.87, and apparently well north of its established range.

SIMPSON, Dr A.N.B. — *Mompha locupletella* D. & S., near Gwbert, Ceredigion, ex larva on *Epilobium parvifolium*, viii.87. *Adela croesella* Scop., Shrawley Wood, Worcestershire (VC37), large numbers flying round stumps of *Tilia cordata* amongst *Rubus* at woodland edge, 6.vi.87. *Dichomeris ustalella* Fabr., Worcestershire (VC37), one specimen swept from low vegetation, 6.vi.87; larvae [this sp.?] found feeding on *Tilia cordata*, ix.87 at same site.

SOKOLOFF, P. — *Athrips rancidella* H.-S., West Wickham, Kent, bred specimens together with examples of the larval feedings on *Cotoneaster horizontalis*, cocoons and pupae.

SMITH, E.G. and M.A. — *Euchromius ocella* Haw., Portland, Dorset, two 20.ix.87.

STERLING, P.H. and Col.D.H. — *Haplotinea ditella* P. & M. (gen. det. D.H.S.), Bagley Wood, Oxfordshire (VC22), at mercury vapour light 4.vii.87. *Cataplectica farreni* Wals., Swyncombe Downs, Oxfordshire (VC23), flying diurnally 26, 28.vii.87 [new to Oxfordshire? J.M.C.-H.]. *Coleophora siccifolia* Stt., Wychwood Forest, Oxfordshire (VC23), larvae on *Malus* 10.vii.86, moth reared. *C. clypeiferella* Hofm., Foxhole Heath, Suffolk (VC26), 12.viii.87. *Biselachista scirpi* Stt., Hayling Island, Hants, pupa on *Scirpus maritima* blade below mine, 13.vi.87, moth reared. *Aplota palpella* Haw., Savernake Forest, Wilts. (VC7), larvae in moss tubes on oaks, 24.v.87, and on 27.vi.87 from Blenheim Park, Oxfordshire (VC23); moths reared from both localities — the latter a new county record. *Agrolamprotes micella* D. & S., Winchester, Hants (VC11), in mercury vapour light trap, 13/14.vii.87; a new county record. *Monochroa* sp., Cliffe Marshes, Kent, mine collected 28.ix.86, moth reared; thought to be an unnamed *Monochroa* identical to those reared by E.C. Pelham-Clinton and J.R. Langmaid from similar mines from Essex. *Psamathocrita argentella* P. & M., Hayling Island, Hants, a previously unknown locality, flying freely over *Agropyron pungens* at around 16.00 hours between heavy showers on 13.vi.87. *Mompha langiella* Hb., Wytham Wood, Oxfordshire (VC22), reared from larval mines on *Circaea* collected 6.vii.87. *Dystebenna stephensi* Stt., Wanstead Flats (VC18), on old oaks diurnally 1.viii.87. *Falseuncaria degreyana* McLach., Foxhole Heath, Suffolk (VC26), flying at dusk over *Linaria* 12.viii.87. *Spatalistis bifasciana* Hb., Langley Wood, Wilts (VC8). *Cydia molesta* Busck, Winchester, reared from larva on Italian peach purchased at Sainsbury's by R.A. Bell. *Bryotropha basaltinella* Zell. and *Catoptria falsella* D. & S., Wytham, Oxfordshire (VC22), reared from the moss *Tortula ruralis* collected from an old tiled roof on 12.iv and 27.vi.87 respectively.

STERLING, M.J. — A small selection of micros taken in a Nottinghamshire Power Station during a CEGB survey carried out at their request. *Coleophora anatipennella* Hb., a new county record; *Hedya dimidioalba* Retz., an unusual melanic form; *Endothenia ericetana* H. & W.; *Eurrhypara perlucidalis* Hb., a new county record; *Pempelia formosa* Haw., a new county record.

FOREIGN LEPIDOPTERA

These exhibits have been divided between Palaearctic species, mainly from Spain and France, but including specimens of *Apatura iris* Linn. from Korea with British for comparison, and exotic species from Africa and the West Indies. Several other exhibitors showed comparisons of British and continental species which are very rare here or could conceivably be found in the future or identified in collections where they have been overlooked. Among the exotics, exhibits of reared crosses between African mainland and island Papilionidae, *Charaxes* from Kenya, and many species of both moths and butterflies from Sierra Leone and of Sphingidae from Jamaica and Thailand were outstanding.

Palaearctic species

CRIBB, P.W. — A fine case of species taken during 3 weeks in the Pyrenees and central Spain. Butterflies included extreme aberrations of *Fabriciana chlorodice* N.-S., *Brenthis ino* Rott. and *Dysandra thersites* Cant. from the Sierra de Cuenca; also bred examples of F₂ and F₃ generations of *Mellicta parthenoides* Kef.

DOBSON, A.N. — Portuguese Lepidoptera taken in the Sao Joao district of Albufeira, Algarve, mostly on shop windows or white wall lights during dawn walks. These included species which have been found in the UK: *Spodoptera exigua* Hübn., including a dark form with contrasting light orbicular stigma, and *S. litura* Bdv., both very common; *Rhodometra sacraria* Linn., common; *Eilema caniola* Hübn. (1); *Ochroleura leucogaster* Frr.; *Trichoplusia ni* Hübn. (3); *Chrysodeixis chalcites* Esp. (1); *Mythimna albipuncta* D. & S. (2); *Cucullia chamomillae* D. & S. (1); *Eupithecia phoeniceata* Ramb. (1); *Ortholitha perobolata* Hübn. (1).

GOATER, B. — Fourteen species of *Catocala* Schr. taken in Britain, France and Spain. Interesting species pairs and species groups of European Macrolepidoptera, including some that might conceivably be found in Britain: Lasiocampidae — two species of *Trichiura* and four of *Phyllodesma*; Drepanidae — *Drepana binaria* Hufn. and *D. uncinula* Borkh.; Geometridae — four species of *Cyclophora* including *C. quercimontaria* Bastelbgr., which closely resembles *C. punctaria* Linn.; *Scotopteryx moeniata* Scop. and *S. diniensis* Neuberger; four species of *Horisma* Hübn., with *H. tersata* D. & S. and three others resembling it; *Ennomos erosaria* D. & S. and *E. quercaria* Hübn.; *Nychiodes obscuraria* de Vill. and *N. andalusaria* Mill.; Notodontidae — *Phalera bucephala* Linn. and *P. bucephaloides* Ochs.; *Cerura vinula* Linn. and *C. erminea* Esp.; Noctuidae — *Yigoga amasina* Corti & Draudt, *Y. selsicola* Bellier and *Y. gracilis* F. Wagner; *Ochroleura plecta* Linn, *O. plecta* ssp. *unimacula* Stldr. and *O. leucogaster* Frr.; *Chersotis anatolica* Draudt (non *C. elegans* Evers.) and *C. elegans* Evers. (= *C. grammiptera* Rambur); *Noctua comes* Hübn., *N. orbona* Hufn. and *N. interposita* Hübn. and *N. interposita baraudi* Boursin; *Noctua fimbriata* Schreb. and the recently described *N. tirrenica* Bieb., Hanig Heinicke; *Noctua interjecta interjecta* Hübn. from south Europe and *N. interjecta caliginosa* Shaw. from Britain; and finally *Noctua janthina* D. & S., the common species in Britain, and a recently recognized 'twin' from south west Europe which has more black and less yellow on the hindwing and a different pattern near the apex of the forewing underside. Unfortunately it appears that the latter is the true *janthina* of D. & S., and that it is our species which requires a name.

GREATOREX-DAVIES, J.N. and WESTWOOD, N.J. — A representative selection from 140 species of butterflies taken in the central Pyrenees, 17–27.vii.87, particularly around the Aigues Tortes National Park. Of particular interest was *Pseudoaricia nicias* Meigen near Bagerque in Vallee de Aran., and also *Erebia lefebvrei*, *E. gorgone* and *E. hispana* there and near La Mouzie further west in the French

Pyrenees. Other species in the Valle de Aran included *Parnassius mnemosyne*, *Libythea celtis*, *Erebia gorge*, *E.sthenyyo*, *Polyommatus eros*, *Eumedonia eumedon*, *Agrodiaetus amanda*, *A.escheri*, *Agriades glandon*. Further south in the hot dry valleys of southern foothills of the Pyrenees, near the Pas de Collegrats, species included *Agrodiaetus ainsea*, *A.ripartii*, *Lysandra albicans*, *Pseudotergumia fidia*, *Melitaea trivialis*.

HALL, N.M. — Some Lepidoptera on the British list collected in France and Spain. Macrolepidoptera: *Acosmetia caliginosa* Hübn., Reddish Buff, Tarimbia, Asturias, Spain; *Periphanes delphinii* Linn., Pease Blossom, Lake Gallocanta, Zaragoza, Spain; *Peliosia obtusa* H.-S., Small Dotted Footman, Lac de Gd. Lieu, Loire-Atlantique, France. *Heliothis virescens* Hufn. Marbled Clover, Olonne, Vendée, France & Sarriena Lake, Huesca, Spain. *Heliothis maritima* Graslin, Shoulder-striped Clover, Olonne, Vendée, France. *Acontia lucida* Hufn., Pale Shoulder, Olonne, Vendée, France. *Drepana curvatula* Borkh., Dusky Hook-tip, Lac de Gd. Lieu, Loire-Atlantique, France. *Coscinia cribraria* Linn, Speckled Footman, Plage de Casernes, Landes, France; *Cyclophora puppillaria* Hübn., Blair's Mocha, Plage de Casernes, Landes, France; *Gluphisia crenata* Esp., Dusky Marbled Brown, Lieu, Loire-Atlantique, France. *Acronicta auricoma* D. & S., Scarce Dagger, Plage de Casernes, Landes, France; *Spargania luctuosa* D. & S., White-banded Carpet bred ex *Epilobium* sp., Les Haudères, Switzerland; moths of the *Cryphia algae* complex: *algae* F., *pallida* Bethune Baker or *Ochsi* Boursin, from various localities; *Cryphia raptricula* D. & S., Marbled Grey, various localities; *Cryphia domestica pyreneae* Ochs, Col Botella, Andorra.

Microlepidoptera: *Crambus uliginosellus* Zell., Olonne, Vendée, France; *Pediasia aridella aridella* Thunb., Olonne, Vendée, France; *Pediasia fascinelina* Hübn., Plage de Casernes, Landes, France; *Psammotis pulveralis* Hübn. Lac de Gd. Lieu, Loire-Atlantique, France; *Acrobasis tumidana* D. & S., Lac de Gd. Lieu, Loire-Atlantique, France (attention drawn to the raised scales on *tumidana* and desirability of avoiding flattening such species when setting.)

Also shown were four small noctuids collected in Penalba, Huesca, Northern Spain, 20–21.viii.85, so far unidentified; and a selection of other small noctuids from southern Europe, mostly Acontiinae.

HOLLINGWORTH, T.S. — Selection of Lepidoptera from Lège, Cap Ferret, South West France. This included several species of non-British Macrolepidoptera, such as *Lymantria dispar* Linn., *Odonestis pruni* Linn., *Harpyia milhauseri* Fab., *Ochrostigma velitaris* Hufn., *Drymonia querna* D. & S., *Thaumetopoea processionea* Linn., *T.pityocampa* D. & S., and several scarce species on the British list such as *Polyphaenis sericata* Fab., *Rhodometra sacraria* Linn., *Coscinia cribraria* Linn., and some interesting Microlepidoptera: *Pediasia fascinelina* Hübn., *Dioryctria sylvestrella* Retz; Gelechiidae including *Chrysoesthia sexguttella* Thunb., *Pseudotelphusa scalella* Scop., *Mirificarma mulinella* Zell., *Aroga pascuicola* Stdr., *A.velosella* Zell.; Tortricidae: *Apotomis semifasciana* Haw., *Epinotia festivana* Hübn., *Cydia amplana* Hübn.; Lithocolletinae: *Phyllocnistis xenia* Her., *Phyllosorycter platanoidella* J. de Joannis; *Trifurcula platani* Muller-Rutz., all leaf-miners.

McFEELY, J. — *Apatura iris peninsularis* Lee and Takakura, 1981, seven specimens bred from Korea, with two *A.iris* from south England for comparison. Consistent differences are the rich mauve tint on the underside which is present in all of 50 Korean specimens so far bred, and some details in the life histories of the two 'races' from both ends of the insect's range. These constant characters have been now proved in several generations reared in England.

PRINGLE, G. — *Clossiana selene* D. & S., an aberration near f. *hela* Kals, Osttirol,

1800m, 13.vii.87. *Meleageria daphnis* D. & S., Burgos area, north west Spain, 600m, 28 and 30.vii.83. *Erebia sudetica lioranus* de Lesse, Cantal, central France, two males, 1800m., 10.vii.86; and central Carinthian Alps, Austria, two males, 20.vii.87, lent by Professor Erich Laxer of Lienz. *Erebia melampus* Fuessly, four males, Kals Osttirol, 1400m, 10–24.vii.87; Eigerhorn, Osttirol, three males, 2300m, 6.ix.86. Austrian lepidopterists are apparently doubtful if *E.sudetica* can be reliably distinguished from *E.melampus*, shown for comparison.

WAITE, P. — Lycaenidae collected in northern and central Spain in July 1987: 32 species and sub-species, several found only in restricted localities. Of particular interest are representatives of the *Lysandra coridon* group — *L.coelestissima* Verity, restricted to high, non-calcareous areas of the Montes Universales, central Spain; *L.arragonensis* Gerhardt, in the calcareous areas; *L.caeruleascans* Tutt, thought to be hybrid of *L.caelestissima* × *L.arragonensis*; *L.asturiensis* Sag., limited to northern Spain, flying in some areas with *L.hispana* H.-S., which is the only representative of the group exhibited which occurs outside Spain; *L.albicans* H.-S., most widely distributed in southern Spain but occasionally further north. Other interesting species are *Agrodiaetus ainsae* Forster, occurring only in limited areas of northern Spain; *A.fabressei* Oberthur, restricted to central Spain; *Plebicula nivescens*, more widespread but local and confined to Spain. (Editorial note: there are still differences of opinion about the specific, sub-specific and formal status, and in some cases also about the distribution, of these insects in Spain. For a full recent account see Bustillo & Rubio, 1974, Mariposas del la Peninsula Iberica).

Exotic species

BROOME, G. — Butterflies and photographs from Trinidad, collected November 1986. These included Papilionidae: *Battus lycidas* and Riodinidae: *Theope excelsa*, of which there are only two previous records from Trinidad; also Riodinidae one species unidentified, probably of genus *Lemonius*, not previously recorded from Trinidad.

CLARKE, C. — Race crosses between African mainland *Papilio dardanus dardanus* and *P.d.humbolti* from the Comoros Islands and *P.d.meriones* from Madagascar, (two cases of butterflies); *Papilio nandina*, a naturally occurring species hybrid between *P.dardanus* and *P.phorcas* (one case of butterflies).

HALL, N.M. — A drawer of Macro- and Micro-lepidoptera collected from around lights in the Cape Sierra Hotel, Freetown, Sierra Leone, at Christmas to New Year 1986–1987.

HARMAN, T.W. — Sphingidae taken in Thailand during July and August 1987: *Clanis undulosa* Moore; *Maganoton analis* Feld.; *Amplypterus masoni* Clark; *Callambulyx rubricosa rubricosa* Walk.; *Marumba cristata* Butl.; *Acosmerycoides leucocraspis* Hamps.; *Marumba spectabilis* Butl.; *Barbourion lemai* Le Moult (believed to be the first specimen seen in Britain); *Ambulyx elwesi* Druce; *Pentateucha curiosa* Swin.; *Acherontia styx* Westw.; *Acosmeryx naga* Moore; *Callambulyx poecilus* Roths.; *Oxyambulyx canescens* Walk.; *Theratra suffusa* Walk.; *T.oldenlandiae* Fab.; *Ampelophaga dolichoides* Feld.; *Parum colligata* Walk.; *P.porphyrina* Butl.; *Macroglossum sylvia* Bdv.; *Panacra metallica* Butl.; *Enpinanga borneensis* Butl.; *Leucophlebia lineata* Westw.; *Cephandoes hylas* Linn.; *Sphingonaepiopsis pumilio* Bdv. Also shown were Saturniidae from Thailand, including *Salassia iris*, male and *Calligula zuleika*, male, and larvae of the latter. This is the first time this species has been bred. The larvae do not show characteristics of *Calligula*, and the genus needs to be revised.

HOMER, T.J.G. — One of six drawers of Sphingidae taken at Port Antonio, Jamaica, in 1972; a series of *Meneria tulbaghia* Linn. taken near Somerset West, Cape Province, South Africa, in 1981; some moths taken in Transkei, South Africa in 1981.

McNAMARA, D.S.K. — *Ascia monusta* (Great Southern White), bred from livestock obtained at London Butterfly House, 1986.

TREMBATH, D.A. — Part of a selection of butterflies collected in Kenya in December 1986 and December 1987, including some 20 species new to him to add to a total of some 290 species collected in previous years. Among the 'new' species were *Charaxes pollux*, *C.numenes*, *C.tiridates*, *C.bipunctatus*, *C.pythodorus*, *C.smaragdalis*, *C.anticlea*, *C.cerasa*, *Acraea rogersi*, *A.semivittata*, *A.cerasa*, *Bematistes macaria*, *Euryphura ochracea* in two female forms, *Bebearia sophus*, *Appias sylvia*, *Athene otacilia*, *Hypolycaena antifaunus*, *H.liara*, *Bicyclus smithi*, *Melanitis lybia*.

WEST, B.K. — From Transvaal, South Africa. *Colotis ione* Godt.: dry season form *jalone* Btl., male and female to show sexual dimorphism, and a gynandromorph, Wyliespoort, 9.vii.56, left side mainly male, right side mainly female. Also wet season forms to show seasonal dimorphism.

DIPTERA

There were a good number of Diptera exhibits this year, mainly consisting of notable species found during 1987, with a few from previous years. Syrphidae were as usual well represented, but a good range of other families were shown and it was particularly pleasing to see the now very scarce *Stratiomys chamaeleon* (L.) from a new locality.

APPLETON, D. — Two syrphids from Botley Wood, Hants.: *Callicera aenea* (Fab.), male, one of three seen visiting *Rosa* flowers, 21.vi.87; *Pipiza lugubris* (Fab.), female, swept at woodland edge, 27.vi.87.

CHANDLER, P.J. — (1) Five of the six British species of *Euthyneura* Macq. (Empidoidea, Hybotidae), four of them from Windsor Forest, Berks., v-vi.87, at tree blossom especially *Crataegus* and *Prunus padus*: *E.albipennis* (Zett.), new to Britain, a female had been taken 3.vi.80, both sexes found this year; *E.inermis* Becker, recently added to the British list (Cole, J. 1987, *Entomologist's mon. Mag.*, 123: 33-34.), both sexes found at Windsor and in the New Forest in 1987; *E.myrtilli* Macq. and *E.gyllenhalii* (Zett.), both more widespread. Females of *halidayi* Collin, not found at Windsor, included for comparison. All species develop in rotten wood.

(2) Females of an *Anthalia* Zett. species (Hybotidae), also found at *Crataegus* and *Prunus padus* blossom, Windsor Forest, Berks., v-vi.1987. A new genus to the British list, only one male so far found in Britain and specific identity requires further work.

CLEMENTS, D.K. and ALEXANDER, K.N.A. — Some rare and local Diptera mostly resulting from the National Trust Biological Surveys in 1986-87: *Xylophagus ater* Meig. (Xylophagidae), a reared female with pupa-case from beneath oak bark, Mersham Hatch Park, Kent, 17.v.87; examples of the larvae, which are far more usually encountered than the adult, are shown by specimens from beneath oak bark at Nap Wood, E. Sussex, 12.v.87; *Stratiomys potamida* (Meig.) (Stratiomyidae), Rievaulx, N. Yorks., 23.vii.87; *Oxycera pardalina* Meig. (Stratiomyidae), beaten from birch, Beast Cliff, N. Yorks., 28.vii.87; *Vanoyia tenuicornis* (Macq.) (Stratiomyidae) and *Dolichopus arbustorum* Stannius (Dolichopodidae), two of a number of rarities taken from unimproved wet meadows with lush drainage-ditches

at Winchelsea, E. Sussex, 10–11.vi.87; *Xylota abiens* Meig. (Syrphidae), Knole Park, Kent, 24.v.87; *Brachypalpus laphriformis* (Fall.) (Syrphidae), normally a southern species of ancient woodlands, Forge Valley, N. Yorks., 11.vii.87; *Didea fasciata* Macq. (Syrphidae), one of several specimens seen at Hebden Dale, W. Yorks., 9.ix.87; *Urophora spoliata* (Haliday) (Tephritidae), a Red Data Book fruitfly associated with saw-wort (*Serratula tinctoria*); a large population of this species occurs on Afton Down, Isle of Wight, on a National Trust site now threatened by a road-development proposed by the County Council; *Herina lugubris* (Meig.), (Otitidae), 16.vii.87, another local species from this same site, which supports many other rarities; *Paraclusia tigrina* (Fall.) (Clusiidae), taken on a huge hornbeam pollard, Hatfield Forest, Essex, 10.ix.86; this specimen was carrying a phoretic female of the local pseudoscorpion, *Chernes cimicoides* (F.), the grip of which had permanently damaged one of the fly's legs; *Alophora hemiptera* (F.) (Tachinidae), abundant at flowers, Rievaulx, N. Yorks., 23.vii.87.

COLLINS, G. — Syrphidae taken in Surrey in 1987: *Platycheirus discimanus* Loew, Ranmore Common, 29.iv.; *Epistrophe euechroma* (Kowarz), Ashted Common, 25.iv.; *Sphaerophoria philanthus* (Meig.), Tilford, 28.vi; Frith Hill, 16.viii.; *S. virgata* Goeldlin de Tiefenau, Tilford, 28.vi; *Cheilosia velutina* Loew, Send, 1.viii; *C. vulpina* (Meig.), Mayford, 15.viii; *Portevinia maculata* (Fall.), Brewer Street, 16.v; Chaple Copse, 16.v; West Humble, 1.vi; *Rhingia rostrata* (L.), Woldingham, 20.v; Somersbury Wood, 7.vi; Tatsfield, 30.viii; *Brachyopa insensilis* Collin, Ewhurst, 7.vi; *Chrysogaster macquarti* Loew, Chobham Common, 1.viii; *Myolepta luteola* (Gmel.), Cooper's Hill, 1.viii; *Triglyphus primus* Loew, Chertsey Meads, 23.viii.

GODFREY, A. — Various uncommon Diptera collected in 1987: *Keroplatus testaceus* Dalman (Keroplatidae), male, Sydenham Hill Wood, London, 19.ix; *Symphoromyia immaculata* (Meig.) (Rhagionidae), Colney Heath, Herts., chalk grassland, 21.vi; *Agathomyia viduella* (Zett.) (Platypezidae), two males, Chalk Wood, London, 9.v and one male, Badger's Mount, Darenth Wood, Kent, 4.v; *A. falleni* (Zett.) (Platypezidae), part of a swarm of 20–25 males at a height of about 15 feet from the ground on the Horniman Nature Trail, Forest Hill, London; *Megamerina dolium* (F.) (Megamerinidae), male in oak, beech and hornbeam woodland, Sydenham Hill Wood, London, 24.viii; *Acartophthalmus nigrinus* (Zett.) (Acartophthalmidae), male ex malaise trap at Sydenham Hill Wood, 30.ix; *Paraclusia tigrina* (Fall.) (Clusiidae), male on beech log, Whippendell Wood, Herts., 1.viii; *Norellia spinipes* (Meig.) (Scathophagidae), swept by footpath on the Horniman Nature Trail, Forest Hill, London; *Paykullia maculata* (Fall.) (Rhizophoridae), male, Sydenham Hill Wood, 26.viii.

HALSTEAD, A. — Uncommon Diptera collected in 1987: *Tabanus sudeticus* Zell. (Tabanidae), male, Four Crosses, Caernarvonshire, 8.vii, on a car window; *Atherix marginata* (F.) (Rhagionidae), male, Oare Valley, Somerset, by stream, 31.vii; *Xanthandrus comtus* (Harris) (Syrphidae), male, Royston, Herts., 21.ix at *Hedera* flowers; *Triglyphus primus* Loew (Syrphidae), both sexes, Therfield Heath, Herts., at *Heracleum* flowers, 29.viii; *Arctophila mussitans* (F.) (Syrphidae), male, near Llangaffo, Anglesey, on *Corylus* leaf, 11.vii; *Anasimyia lunulata* (Meig.) (Syrphidae), female, Newborough Warren, Anglesey, 7.vii; *Parhelophilus consimilis* (Malm) (Syrphidae), female, Cors Goch Nature Reserve, Anglesey, wet meadow, 12.vii; *Microdon eggeri* Mik (Syrphidae), female, Chobham Common, Surrey, on fallen *Pinus* trunk, 14.vi; *Myopa fasciata* Meig. (Conopidae), female, Chobham Common, Surrey, at *Senecio* flower, 16.viii; *Gasterophilus intestinalis* (Deg.) (Gasterophilidae), male, Dunkery Hill, Exmoor, on cairn at summit (519 m), 4.viii.

MCLEAN, I.F.G. — Some notable Diptera found in 1987: *Chrysotus suavis* Loew (Dolichopodidae), male, Red Wharf Bay, Anglesey, frequent at transition between saltmarsh and thin fore dune; *Triglyphus primus* Loew (Syrphidae), female, at *Daucus* flowers, Foxhole Heath, Suffolk, roadside verge, 15.viii; *Salicella fasciata* (Meig.) (Sciomyzidae), female, Brancaster, Norfolk, *Elymus* fore dune, 23.ix; *Opomyza lineatopunctata* von Röser (Opomyzidae), female, Dersingham Bog, Norfolk, 4.viii; *Coelopa pilipes* Haliday (Coelopidae), male, Red Wharf Bay, Anglesey, associated as larvae with seaweed, 11.vii.

MILES, S.R. — Various local Diptera found in recent years: *Nephrotoma crocata* (L.) (Tipulidae), female, Chobham Common, Surrey, observed stabbing the tip of its abdomen into dry sand at side of a path at 18.30 hours, assumed to be ovipositing, 15.vi.84; *Ctenophora atrata* (L.) (Tipulidae), male, Woolmer Forest, Hants., 13.vi.81; female, Odiham Common, Hants., BENHS Field Meeting, 13.vi.87; *Psilota anthracina* Meig. (Syrphidae), male, at *Crataegus* blossom, Windsor Great Park, Berks., 28.v.85; *Cheilosia nebulosa* Verrall (Syrphidae), female, Noar Hill, Hants., 28.iv.84; *C. soror* (Zett.) (Syrphidae), female, Broughton Down, Hants., 22.viii (both latter at Hants. and Isle of Wight Naturalists' Trust Reserves).

NATURE CONSERVANCY COUNCIL — An exhibit of species recorded from Risby Warren, South Humber, included the following Diptera: *Acrocera orbicula* (F.) (Acroceridae), beaten and swept from trees and shrubs, Regionally notable; *Dolichopus migrans* Zett. (Dolichopodidae), otherwise known only from Breckland, Red Data Book category 3.

PERRY, I. — A selection of uncommon Diptera collected during 1987: *Stratiomys chamaeleon* (L.) (Stratiomyidae), Cors Erddreiniog, Anglesey, 11.vii at *Heracleum* flowers, at edge of a fen with flushes; *Oxycera pardalina* Meig. (Stratiomyidae), Great Orme, Caernarvonshire, 7.vii, on moss by spring on a limestone hillside; *Dioctria cothurnata* Meig. (Asilidae), River Monnow, Skenfrith, Gwent, 15.vi; *Platypalpus pallidiset* Kovalev (Hybotidae), Paradise, Cambridge, 1-2.viii, swept from sedge under *Salix* carr, the second British locality, the first record being in 1976 at Earith Gravel Pits, Cambs., by Jonathan Cole; *Hilara media* Collin (Empididae), Afon Roe, Caernarvonshire, 6.vii; *H. barbipes* Frey (Empididae), River Monnow, Clodock, Hereford, 15.vi, formerly known only from Scotland, has been found at several localities on the River Monnow; *Dolichopus cilifemoratus* Macq. (Dolichopodidae), Paradise, Cambridge, 1.viii, abundant in a small marsh by the River Cam; *Hercostomus praetextatus* (Haliday) (Dolichopodidae), Traeth Dulas, Anglesey, 10.vii, on damp sand at the base of cliff seepages; *Syntormon monilis* (Haliday) (Dolichopodidae), Coe Fen, Cambridge, 1.viii; *Argyra elongata* (Zett.) (Dolichopodidae), Ely, Cambs., 28.viii; *Lonchoptera meijerei* Collin (Lonchopteridae), River Monnow, Skenfrith, Gwent, 15.vi, swept from wet shingle; *L. nigrociliata* Duda (Lonchopteridae), River Monnow, Clodock, Hereford, 15.vi, swept from wet shingle; *L. scutellata* Stein (Lonchopteridae), Coe Fen, Cambridge, 15.viii, swept from the edge of a ditch; *Epistrophe diaphana* (Zett.) (Syrphidae), Windsor Forest, Berks., 25.vii at *Heracleum* flowers; *Megamerina dolium* (F.) (Megamerinidae), Windsor Forest, Berks., 25.vii; *Acanthocnema glaucescens* (Loew) (Scathophagidae), River Monnow, Monmouth Cap, Hereford, 17.vi, found on exposed rocks and vegetation along with *Wiedemannia* species (Empididae).

SIMPSON, A.N.B. — The Syrphidae *Brachyopa scutellaris* R.-D. and *B. insensilis* Collin, both feeding at *Pyracantha* flowers, 11.vi.87, only one *insensilis* amongst many *scutellaris* in a wooded garden, 20 m from partly dead *Fraxinus* trees, near Leigh, Worcs.

STUBBS, A.E. — (1) Some notable craneflies (Tipulidae): *Limonia magnicauda*, 2 males, 1 female, Llyn Hafodol, Anglesey, on a floating mire, 11.vii.87 — this species was first discovered as British 10 years previously at the same locality; it is unknown elsewhere in Britain and has not yet been officially added to the British list. *Prionocera subsericornis* (Zett.), male, Catfield Fen, Norfolk, 19.viii.87; both sexes, Woodbastwick NNR, Norfolk, by shaded ditches in alder carr, 20.viii.87; this cranefly was first recorded as British from Catfield in 1920 and was not found in Britain again until 1985 at Thompson Common, Norfolk. *Linonia* species indet., male, Kew Gardens, in a heated greenhouse, 28.vii.87; a species of African or Asian origin, which has not been seen in Britain before.

(2) Hoverflies (Syrphidae) in the Peterborough area: *Platycheirus discimanus* Loew, 2 females, Bourne Wood, Lincs., at *Prunus spinosa* blossom, 28.iv.87; *Melangyna barbifrons* (Fall.), female and *M. quadrimaculata* Verrall, both sexes, Southey Wood, Cambs., at *Salix* blossom, 5.iv.87; *Anasimyia interpuncta* (Harris), both sexes, Stanground, Cambs., *Glyceria* marsh, 8.v.87; *Cheilosia chrysocoma* (Meig.), female, Castor Hanglands NNR, Cambs., woodland ride, 26.v.87; *C. praecox* (Zett.), both sexes, Fineshades, Northants., woodland edge, at *Prunus spinosa* blossom, 23.v.87; *C. intonsa* Loew, female, Kingscliffe, Northants., at *Leontodon autumnale* flowers in church yard, 31.viii.87; *C. cynocephala* Loew, male, Sutton Heath, Cambs., at *Leontodon autumnale* flowers, 3.ix.87.

(3) Other flies: *Haematopota grandis* Meigen (Tabanidae), female, Walberswick NNR, Suffolk, 8.viii.86; *Metasyrphus latilunulatus* Collin (Syrphidae), male, Windsor Forest, Berks., at *Potentilla erecta* flowers, 22.vii.87; *Salicella fasciata* (Meig.) (Sciomyzidae), female, Gibraltar Point, Lincs., fore dunes, 9.ix.87.

COLEOPTERA

Beetle exhibits were rather down in numbers this year, several regular exhibitors being absent. Nevertheless, the standard was as high as ever, and the number of remarkable finds if anything on the increase. One rare beetle in particular appears to have had a good year (or coleopterists have had a good year of it) and that is *Odontaeus armiger*. This beetle appeared in three separate exhibits, those of Messrs Albertini & Hall, Foster and Parsons. I myself was very pleased to find another rare scarabaeid — *Trox sabulosus*, and in some numbers also. As always Professor Owen produced an extensive exhibit of extremely interesting beetles, but this time augmented with a live example of *Dytiscus lapponicus*. Much to everyone's delight, he then proceeded to feed the insect with scraps of meat, which it took voraciously. There were a few foreign beetles, Mr Barrington showed a large longhorn taken in Corfu, and Dr McClenaghan showed two foreign weevils imported into the UK. Other interesting finds were: *Ischnomera cinerascens*, a third British locality by Messrs Alexander and Clements of the National Trust, *Choleva elongata* new to Britain by Mr Collier, *Cryptcephalus nitidulus* by Mr Halstead, *Meloe violaceus* by Mr Henderson, and *Cymindis axillaris* by the Nature Conservancy Council.

ALBERTINI, M. and HALL, P. — *Odontaeus armiger* (Scop.), at mercury vapour light on the Chilterns escarpment at Grangelands, Lower Cadsden, near Princes Risborough, Bucks., 16.viii.87.

ALEXANDER, K.N.A. and CLEMENTS, D.K. — A selection of beetles mostly taken during the 1987 field season of the National Trust Biological Survey: *Bembidion litorale* (Ol.), several on sandy banks of R. Ouse, Beningbrough Park, N. Yorks., 22.vii.87; *Lucinus punctatulus* (F.), beneath stone, Dolebury Warren, Avon, 26.iv.87, and elytra of another found at Crook Peak, Somerset, 23.vi.87, both sites

being in the Mendip Hills; *Aeletes atomarius* (Aube), rotting fallen ash trunk within Lydney Park, Glos., 18.vi.87; *Prionocyphon serricornis* (P. Müll.), reared from pupa found in same ash as the *Aeletes*; *Drilus flavescens* (Fourc.), many swept on downs at Trottisciffe, Kent, 26.v.87; *Megatoma undata* (L.), on split/fallen beech, Leigh Park, Hall Place, W. Kent, 24.v.87; *Uleiota planata* (L.), beneath bark on felled large old elm at wood edge, Ightham Mote, Kent, 18.v.87; *Mycetochara humeralis* (F.), under bark of fallen oak boughs, Kedleston Park, Derby., 16.vi.87; *Anisoxya fuscula* (Ill.), beneath bark on ancient willow pollard, Walton Moor, Gordano, Avon, 17.x.86; *Ischnomera cinerascens* Pand., swept in woodland at edge of West Wycombe Park, Bucks., 12.vi.86, otherwise only known from Moccas Park, Here., and Duncombe Park, N. Yorks.; *Donacia aquatica* (L.), one of a small population found near Coniston, Cumbria, 28.vi.87, confirming the continued presence of this rarity at this site discovered in 1980; *Zeugophora subspinoso* (F.), swept from young aspen along ride in Petts Wood, S.E. London, 21.v.87; *Crioceris asparagi* (L.), swept from naturalized asparagus at Sandwich Bay, Kent, 9.vi.87; *Mesites tardii* (Curt.), two from under bark of fallen oak bough, Hayburn Wyke Wood, N. Yorks., 29.v.87; *Baris picicornis* (Marsh.), found singly at stem bases of *Reseda lutea* along trampled cliff top grasslands either side of Birling Gap, E. Sussex, 11.v. and 3.vi.87; *Platypus cylindrus* (F.), one of several found in boreholes of bark of tree, probably oak, felled as a horse jump in Sissinghurst Park, Kent, 13.v.87.

BARRINGTON, R.D.G. — Some insects from Corfu, including a large longhorn beetle.

COLLIER, M.J. — Coleoptera from the Norfolk coast: *Nebria livida* (L.), West Runtton, 18.vii.83; *Dyschirius impunctipennis* Daw., Wells, 9.viii.86; *D. obscurus* (Gyll.), Cromer, 16.viii.86; *D. thoracicus* (Ros.), Wells, 9.viii.86; *Asaphidion pallipes* (Duft.), Cromer, 26.viii.85; *Bembidion ephippium* (Marsh.), Salthouse, 13.ix.87; *B. normannum* Dej., Brancaster, 3.vii.87; *Tachys scutellaris* Steph., Wells, 9.viii.86; *P. luridipennis* (Germ.), Salthouse, 13.ix.87; *Saprinus cuspidatus* Ihs., *Hypocaccus metallicus* (Herbst), *Baeckmanniolus dimidiatus* (Ill.), Brancaster, 29.vi.86; *Leiodes lunicollis* (Rye), (det. J. Cooter), Cromer, 26.viii.85; *Bledius bicornis* (Germ.), *B. diota* Schi., Salthouse, 16.viii.86; *B. longulus* Er., Sheringham, 16.v.87; *B. tricornis* (Herbst), Holme, 10.viii.86; *Cypha pulicaria* (Er.), Holme, 10.viii.86; *Diglossa mersa* (Hal.), Wells, 18.iv.87; *Lomechusa emarginata* (Payk.), Overstrand, 13.x.87, with the ant *Myrmica rubra* L.; *Limnichus pygmaeus* (Sturm), Cromer, 13.ix.87; *Dolichosoma lineare* (Ros.), *Malachius barnevillei* Put., Wells, 9.viii.86; *Coccidula scutellata* (Hbst.), Winterton, 21.ix.86; *Apion limonii* Kirby, Wells, 9.viii.86; *A. dissimile* Germ., Cromer, 16.viii.86; *Cleonus piger* (Scop.), Shepherds Port, 3.vii.87; *Pselactus spadix* (Herbst), *Ceuthorhynchidius dawsoni* (Bris.), Holme, 10.viii.86; *Tychius squamulatus* Gyll. (= *flavicollis* auct.), *Mecinus collaris* Germ., Brancaster, 3.vii.87.

Notable Coleoptera from various other localities: *Dyschirius politus* (Dej.), Homersfield, Suffolk, 14.viii.86; *Trechus discus* (F.), Flixton, Suffolk, 31.viii.86; *T. micros* (Herbst), Homersfield, River Waveney, 1.i.87; *Pterostichus gracilis* (Dej.), Stanford Battle Area, Norfolk, 26.iii.86; *Amara consularis* (Duft.), Flixton, Suffolk, 28.xii.86; *A. equestris* (Duft.), Santon Downham, Norfolk, 26.vii.87; *Abraeus granulum* Er., Homersfield, Suffolk, 2.xi.86; *Agathidium marginatum* Sturm, Santon Downham, Norfolk, 30.viii.87; *Choleva elongata* (Payk.), new to Britain, Chedgrave, Norfolk, 15.xii.85; *Nicrophorus vestigator* Hers., Santon Downham, Norfolk, 30.viii.87; *Euthia scydmaenoides* Steph., Sexton Wood, Norfolk, 4.v.86; *Coprophilus striatulus* (F.), Needham, Norfolk, 1.i.87; *Stenus butrintensis* Smet., Stanford Battle Area, Norfolk, 26.iii.86; *Aleochara sanguinea*

(L.) (det. R.C. Welch), Sexton Wood, Norfolk, 17.v.87; *Heterocerus hispidulus* Kiesenw., Homersfield, Suffolk, 2.viii.86; *Malthodes crassicornis* (Mak.), Epping Forest, Essex, 15.iii.87; *Henoticus serratus* (Gyll.), Sexton Wood, Norfolk, 17.v.87; *Halyzia sedecimguttata* (L.), Thetford, Norfolk, 24.v.87; *Enicmus rugosus* (Herbst), Santon Downham, Norfolk, 6.ix.87; *Synchita humeralis* (F.), Santon Downham, Norfolk, 7.vi.87; *Phyllotreta cruciferae* (Goeze), Homersfield, Suffolk, 30.iv.87; *P. flexuosa* (Ill.), Catfield, Norfolk, 25.v.87; *Longitarsus dorsalis* (F.), Harleston, Norfolk, 10.vi.87; *Lythraia salicariae* (Payk.), Catfield, Norfolk, 25.v.87; *Chaetocnema sahlbergi* (Gyll.), Haverthwaite, Westmorland, 26.vi.87; *Apteropeda globosa* (Ill.), West Harling Common, Norfolk, 16.v.86; *Apion vicinum* Kirby, Thompson Common, Norfolk, 12.ix.87; *Otiorhynchus raucus* (F.), Homersfield, Suffolk, 30.v.86; *Dorytomus tremulae* (F.), Lopham Fen, Norfolk, 26.vi.86; *Ceutorhynchus mixtus* Muls., Wiveton, Norfolk, 16.v.87; *C. pectoralis* Weise, Grantshouse, Berwickshire, 11.vii.87; *Phytobius quadricornis* (Gyll.), Thompson Common, Norfolk, 12.ix.87; *Sibinia primitus* (Herbst), Flixton, Suffolk, 24.viii.86; *Rhynchaenus testaceus* (O. Müll.) Santon Downham, Norfolk, 9.v.87.

FOSTER, A.P. — *Leptura scutellata* F., *Procræus tibialis* (B.&L.), *Prionocyphon serricornis* (P. Müll.), Hatfield Forest, Essex, 20.vi.87; *Licinus depressus* Payk., on a forest ride near Weeting, Norfolk, 29.vi.87; *Odontaeus armiger* (Scop.) taken at mercury vapour light at two sites: Foxhole Heath, Suffolk, 29.vi.87 and Mundford, Norfolk, 18.vi.87 and 21.viii.87; *Aphodius villosus* Gyll., common in rabbit burrows, Mundford, Norfolk, 29.vi.87; *Harpalus froelichi* Sturm, common at mercury vapour light at Foxhole Heath, Suffolk, 29.vi.87 and Mundford, Norfolk, 21.viii.87; *Licinus punctatulus* (F.), at two sites in the Mendip Hills: Crook Peak and Burrington Combe, 18.v.87; *Cetonia aurata* (L.), in a rose in a garden, Friern Barnet, London viii.87; *Cantharis abdominalis* F., Mallyan Sprout, Yorkshire, 13.vi.87, *Carabus monilis* F., in a water trap, Castor Hanglands NNR, Cambridgeshire.

HALSTEAD, A.J. — Some local or uncommon Coleoptera taken in 1987: *Ptilinus pectinicornis* (L.), on dead elm trunk, Therfield Heath, Herts.; *Halyzia 16-guttata* (L.), Rothamsted light trap, RHS Garden, Wisley, Surrey, 9.vii.87; *Mordella villosa* (Schr.), on wild carrot flower, Othery, Somerset, 5.viii.87; *Cryptocephalus nitidulus* F., on a rose leaf, Whitedown, Surrey, 31.v.87; *Amphimallon ochraceus* (Knoch), drowned in a rock pool, Porth Ysgo, Caerns. 8.vii.87; *Soronia punctatissima* (Ill.), Rothamsted light trap, RHS Garden, Wisley, Surrey, 21.ix.87; *Metoeus paradoxus* (L.), indoors in an office, RHS Garden, Wisley, Surrey, 22.ix.87; *Leptura sexguttata* F., on bracken frond, Eyeworth Wood, New Forest, 6.vi.87; *Cicones variegatus* (Hell.), on dead beech trunk, Whitedown, Surrey, 26.iv.87; *Omosita depressa* L., on bone, Eyeworth Wood, New Forest, 6.vi.87; *Melandrya caraboides* (L.), on ash trunk, Whitedown Surrey, 31.v.87; *Staphylinus erythropterus* L. running over turf, Pinkery Pond, Somerset, 31.vii.87.

HENDERSON, M. — Some beetles of the South Glamorgan Coast: *Nebria complanata* (L.) and *Chrysolina violacea* (Mull.) Merthyr Mawr Warren and Dunes in the Vale of Glamorgan, an area of high sand dunes, woodland and scrub by the estuary of the River Ogmore; *Brachinus crepitans* (L.) and several other carabids from East Aberthaw, a small area of salt marsh, limestone cliffs and old sand dunes; *Meloe violaceus* Marsh. Wentwood, an area of woodland in the Usk Valley near Newport.

JONES, R.A. — Some local and interesting beetles taken recently: *Eledona agricola* (Herbst), in dry powdery fungus on beech, Richmond Park, Surrey, 17.viii.86; *Stenostola ferrea* (Schr.), sweeping under lime trees, Scaynes Hill, Sussex, 24.v.87; *Rhizophagus parallelcolis* Gyll., under bark of small log, Nunhead

Cemetery, London SE15, 8.viii.87 (the so-called grave-yard beetle); *Anisoxya fuscula* (Ill.), sweeping under old lime trees, Nunhead Cemetery, 30.viii.87; *Trechus discus* (F.), under board on bare earth, Nunhead Cemetery, London SE15, 30.viii.87; *Platyderus ruficollis* (Marsh.), under board on bare earth, Nunhead Cemetery, 30.viii.87; *Cryptocephalus biguttatus* (Scop.), sitting on grass stem, Chobham Common, Surrey, 26.v.85; *Amara eurynota* (Panz.), running across pavement, Vauxhall, London SW8 (usually associated with 'open' ground, it is odd to find it on a central London flag stone); *Bembidion quinquestriatum* Gyll., running across sandy ride, Scaynes Hill, Sussex, 4.vii.87 (supposedly a dark-loving species, this specimen was running about in bright sunshine in company with *B. lampros* (Herbst)); *Trox sabulosus* (L.), in numbers under rotten sacking, Ambersham Common, Sussex, 23.viii.87; *Caenopsis waltoni* (Boh.), under board, Richmond Park, Surrey, 8.iii.85.

McCLENAGHAN, I. — *Diaprepes famelicus euriens* Gyll., a foreign weevil, found in a car in Hampshire, ix.87 (it was later learned that plants from Monserrat had been transported to a nursery in the car, the beetle was identified by Dr R. Thompson of the BM(NH), who said 'this subspecies occurs in St Kitts, Antigua, Monserrat and Dominica of the Lesser Antilles'); *Pentamerus fulleri* another foreign weevil (determined by M. Russell), in imported bunch of grapes, Essex, vii.87; *Prionus coriarius* (L.) indoors at light near South Thorndon Park, TQ6291 on the evening of 4.ix.77; *Nacorda melanura* (L.), indoors, Dagenham, Essex, 16 and 18.vi.86 (this beetle, usually found feeding on wood on the shore, was 3 km from the Thames); *Osphyia bipunctata* (L.), Thorndon Park, Essex, TQ 6290, (a male taken on 4.vi.86 and males taken in 1986 and a female in 1985 indicate that the species is well established in this site, 100 miles SSE from the Huntingdonshire site where most records are centred); *Tenebrio molitor* L., an imago which retained its pupal skin but with normal head, antennae and legs; *Aderus populneus* (Creutz.), at mercury vapour light, Southam, War., 21.viii.87; *Trechus discus* (F.), at mercury vapour light, Southam, War., 21.viii.87; *Pentarthrum huttoni* Woll., one of more than a dozen specimens in spiders' webs on wood in an old house, Kenilworth, War., x.87; *Euophryum confine* Broun in the same situation as *Pentarthrum*; *Atomaria zetterstedti* (Zett.), swept, North Thorndon Park, Essex, 28.vi.86 (not seen in UK for many years); *Ptilium exaratum* (Allibert), in compost heap, Witham, Essex, (new to Essex); *Nossidium pilosellum* (Marsh.), in hard fungus, Rivenhall, Essex, 8.vi.82; *Smicrus pilicornis* (F. & L.), in dung heap, Little Baddow, Essex, 6.v.85. (The last four species were determined by Mr C. Johnson of Manchester Museum.)

NATURE CONSERVANCY COUNCIL — Some beetles from Risby Warren, South Humberside: *Broscus cephalotes* (L.), an unusual inland record for this coastal species; *Harpalus anxius* (Dufts.), on sandy areas on dune; *Cymindis axillaris* (F.), in sparse grassland on sand, at northern edge of range; *Aphodius distinctus* (P. Müll.), on rabbit carcass; *Cardiophorus asellus* Er., open grassland on sandy soil; *Melanimon tibialis* (F.), another usually coastal species; *Orthocerus clavicornis* (L.), in sandy areas, another usually coastal species; *Otiorhynchus desertus* Rosen., on dry dune grassland; *Ceutorhynchus geographicus* (Goeze), on Viper's Bugloss.

OWEN, J.A. — *Nebria nivalis* (Payk.), Creag Meagaidh, Inv.; in a pitfall trap set near the summit at 1100m. Traps were set in June 1987 and retrieved in August 1987. This is a boreo-British species, confined in Britain to the summits of mountains in Scotland and the north of England. This is apparently the first record for the Monadliath range. *Dyschirius nitidus* (Dej.), Mouth of R. Kirtle, Dumfries, vi.87; crawling on bare sand. This species occurs at various coastal sites and has recently been taken on the Cumbrian coast on the south side of the Solway Firth. *Oreodytes*

alpinus (F.), Loch More, Caithness, iii.86. This was added to the British list at the end of 1985 and has not, so far, been taken outside the Caithness area. It is a boreo-British species occurring in Scandinavia but not Central Europe. *Leiodes litura* Steph. Loch Garten, ix.86; from an interception trap in a birch wood. *L. picea* (Panz.), Loch Garten, September 1986; also from the interception trap. *Colonia viennense* Herbst, River Nethy, Inv. vii.87; from a shingle bank at the side of the river. This appears to be the first record for this species from Highland Scotland. *Eudectus whitei* Sharp, Aonach na Chrith, Wester Ross, vi.87; sieved from gravel and moss at 1020m. This species is known from the tops of a few Scottish mountains and from two or three sites in the Pennines. This would appear to be the most westerly record for the species in Britain. *Lathrobium ripicola* Czwalina, River Yarrow, Selkirkshire, vii.83; from riverside gravel. *Xantholinus tricolor* (F.) with *X. jarrigei* Coiffait for comparison. Glen Feshie, Inv. vii.87; under a stone on sandy bank at edge of a pine wood. Until recently, this species was confused with *X. jarrigei*. It would appear that *tricolor* is a northern species whilst *jarrigei* occurs mainly in the south. The infused pronotum of *tricolor* is a good distinguishing feature. *Hygropora cunctans* (Er.), Loch Vaa, Inv. vi.86; from moss at the edge of a swamp. There is an unpublished record for this species from Aviemore (P. Harwood). Otherwise there are records only from S. Hants., S. Devon and W. Cornwall. *Cyphon kongsbergensis* Munster, Gairloch, Wester Ross, viii.87; swept from moorland vegetation. This species was added to the British list a few years ago. It is known only from a few sites in north-west Scotland. It exists in several colour forms. *Aphodius nemoralis* Er. Rothiemurchus, Inv. v.87; from deer dung. *Atomaria procerula* Er., Loch Garten, vi.87; from mouldy bones set out as a beetle trap in a pine wood. This rare beetle is known mainly from Scottish pinewoods. This specimen appears to be the first recorded since the 1950s. *Phalacrus brunnipes* Bris., Loch Garten, Inv., vi.86; from a tussock in marshy ground. This appears to be only the second record for the species from Scotland. *P. substriatus* Gyll., Loch an Eilein, Inv., vi.86 swept in a marsh. The beetle is associated with *Narthecium ossifragium*. *Enicmus fungicola* Thoms. Cambus o'May, S. Aberdeen, vi.77, from a powdery fungus on a pine tree. Contrary to published indications, this species appears to be very much rarer in Scotland than *E. rugosus* (Herbst). *Phyllodecta pallida* (L.), Aonach na Chrith, Wester Ross, vi.87, on *Salix herbacea* at 800 m. This is the montane form of this species. The lowland form tends to be lighter and feeds on hazel. *Phyllodecta polaris* Schn. Beinn Eighe, Wester Ross, viii.87 at 1090m, from *Salix herbacea*. This beetle is known from near the summits of only six Scottish mountains but is probably more widespread. *Phyllotreta flexuosa* (Ill.) Loch Garten, Inv., vi.86, swept from grassy bank. *Polydrusus pilosus* Gredler, Loch Garten, vi.87 — green form; Taynult, Argyll, iv.71 — brown form; beaten on both occasions from birch. This species is close to *P. cervinus* (L.) but is larger with hairs on the femora whereas *cervinus* has elongated scales. Associated in the literature also with conifers but the nature of the association so far unexplained. *Sitona ambiguus* Gyll. (= *lineelus* Lind.), Loch Garten, vii.85, swept from roadside. This species is close to *S. lineelus* Bonsdorf and is best distinguished on the shape of the aedeagus. This is figured by Kevan erroneously under the name of *lineelus* Bonsdorf. *S. lineelus* (Bonsdorff) (= *decipiens* Lind.) Eochar, S. Uist, vii.78 swept on machair. This species has a coastal distribution, in Britain mainly in the west and north. The aedeagus is figured by Kevan under the name *decipiens*. The beetle is reported in Britain to be associated with *Vicia cracca* and *Lathyrus pratensis*. *Furcipes rectirostris* (L.), Invermoriston, Inv., vi.87, beaten from flowering bird cherry (*Prunus padus*). Added to the British list in 1981 from specimens taken in West Cumbria (R.W.J.

read), the beetle has been recorded since from Yorkshire and mid-Wales. *Dytiscus lapponicus* Gyll., a living example in a large jar of water.

PARSONS, M. — *Odontaeus armiger* (Scop.), taken at mercury vapour light, Mundford, Norfolk, 18.vi.87.

HEMIPTERA

The Hemiptera were particularly poorly represented at this year's exhibition. Only three exhibits graced the tables of Imperial College, and of these, two were only of a single specimen each, the third a composite exhibit with other orders alongside. One of Britain's largest frog-hoppers *Ledra aurita* was displayed by Eric Bradford, but even this 'large' insect was dwarfed by Rupert Barrington's Greek cicada. The Nature Conservancy Council did well to save the day for both Homoptera and Heteroptera, and showed a selection of local species including in particular the fifth British record for *Ortholomus punctipennis*.

BARRINGTON, R.D.G. — Some insects from Corfu, including a large cicada.

NATURE CONSERVANCY COUNCIL — Some bugs from Risby Warren, South Humberside: *Sehirus luctuosus* (M. & R.), on forget-me-nots on disturbed ground, this species is at the northern edge of its range; *Ortholomus punctipennis* (Herr.-Sch.), fifth British locality and the first for Norfolk; *Peritrechus lundii* (Gmelin), in areas of low vegetation with bare ground; *Trapezonotus arenarius* (L.), usually a coastal species; *Mecomma dispar* (Boh.), amongst long grass; *Macropsis impura* (Boh.), on creeping willow in damp hollows; *Psamotettix sabulicola* (Curt.), normally a coastal dune species; *Scleroracrus decumanus* (Kont.), on dry grassland, an unusually northerly record; *Graphocraerus ventralis* (Fall.), in dry grassland.

BRADFORD, E.S. — A single example of *Ledra aurita* (L.), from Childs Forstal Wood, Kent, 16.xi.86.

HYMENOPTERA

The number of hymenopteran exhibits increased this year although interest in Britain's largest order still lags behind the Diptera and Coleoptera. Much still remains to be learned about the distribution, abundance and habits of many of the Hymenoptera, and all exhibits are of value in helping to supply this information.

ALEXANDER, K.N.A. and CLEMENTS, D.K. and A. — Some Symphyta and aculeate Hymenoptera taken in recent years during biological surveys of National Trust properties. The Symphyta consisted of *Abia sericea* (L.), a local species from Red Moor, Bodmin, Cornwall, on 7.vii.83 and at Plumpton, E. Sussex, on 4.vi.87; *Zaraea fasciata* (L.) taken at Bishops Frome, Herefordshire, on 17.vii.84; *Trichiosoma lucorum* (L.) at Bridestone, N. Yorks., on 9.vii.87; *Sirex noctilio* F., from a small clump of planted pines on Rodborough Common, Glos., on 28.viii.87. The first three species are in the Cimbicidae family, while *S. noctilio* is in the Siricidae. The aculeates exhibited, which were determined by Dr M.E. Archer, included *Ceratina cyanea* (Kirby) (Xylocopidae) taken on Witley Common, Surrey, on 9.vii.86. Three solitary wasps of the Sphecidae family were also shown. These were *Crossocerus binotatus* Lep. and Brullé at Wimpole Park, Cambs., 2.ix.86; *Rhopalum coarctatum* (Scop.) at Hatfield Forest, Essex, 12.ix.86; *Gorytes quadri-fasciatus* (F.) from Bellister, Northumberland, 21.viii.86 — a record that considerably extends the northern limit to the range of this species.

ARCHER, M.E. — Some notable aculeate bees and wasps taken in recent years in the Breckland or Suffolk sandings. One of these, *Philanthus triangulum* (F.)

(Sphecidae) is a Red Data Book category 2 species. A female with its honey bee prey was taken at West Stow Country Park, Suffolk, 15.viii.84, and a male was found at Nacton Heath, Suffolk, on 15.viii.76. The exhibit also contained four Red Data Book category 3 insects. These were the sphecids wasps *Podalonia affinis* (Kirby) at Dunwich Heath, Suffolk, 14.vii.87, and Thetford Warren, 6.vii.87; *Argogorytes fargeii* (Shuck.) at Cavenham Heath, 8.vii.87; and the halictid bees, *Halictus confusus* Smith at Thetford Warren, 14.viii.84, and Cavenham Heath, 15.vii.83; *Lasioglossum brevicorne* (Schenck) at Thetford Warren Lodge, Norfolk, 14.vii.83. Two aculeates more usually found in coastal areas, the sphecids wasp *Oxybelus argentatus* Curtis and the colletid bee *Colletes marginatus* Smith were taken at Thetford Warren Lodge on 14.vii.83. Some other local sphecids were *Crabro scutellatus* (Scheven) at Dunwich Heath, Suffolk, 14.vii.87; *Ectemnius rubicola* (D. and P.) at Cavenham Heath, 8.vii.87; *Lindenius panzeri* (Vand. Lind.) at Lower Hollesley Common, Suffolk, 11.vii.87, and near Hockham, Norfolk, 13.vii.83; *Oxybelus mandibularis* Dahl. at Cavenham Heath, 15.vii.83; *Gorytes tumidus* (Panz.) at Dunwich Heath, Suffolk, 13.vii.87.

BARRINGTON, R.D.G. — A collection of insects taken on Corfu in June, 1987. This included several Hymenoptera such as the carpenter bee, *Xylocopa violacea* (L.), a parasitic wasp *Scolia flavifrons*, and a hornet.

CRIBB, P.W. — A hornet taken in Normandy, France, 25.vii.87.

HALSTEAD, A.J. — Some sawflies and wasps taken or bred in 1987. Three workers of the social wasp, *Dolichovespula media* Retz., a species new to Britain in 1980. These specimens were taken at an oak sap run at RHS Garden, Wisley, Surrey, on 27–28.vii.87 and are believed to be the third UK record and the first for Surrey. This large wasp is of variable colour and one specimen exhibited had an almost entirely black abdomen. Apart from a specimen of *Neurotoma saltuum* L. (Pamphiliidae), bred 11.vi.87 from larvae on pear at Slough, Bucks., all the sawflies exhibited belonged to the Tenthredinidae family. These were *Eutomostethus punctatus* (Konow), Chobham Common, Surrey, 28.vi.87; *Tenthredo distinguenda* (Stein), Odiham Common, Hants., 13.vi.87; a very melanic female *Tenthredo ferruginea* Schrank with just traces of red colour on the sides of the abdomen, RHS Garden, Wisley, 3.vi.87; *Croesus varus* (Vill.), King's Sedge Moor, Somerset, 5.viii.87; *Pristiphora subbifida* (Thomson), bred from larvae on field maple at The Slade, Cold Ash, Berks, emerged 29.iv.87; *Nematus crassus* (Fallen) and *N. capreae* (L.) both RHS Garden, Wisley, 1.vi.87; *Pachynematus vagus* (F.), RHS Garden, Wisley, 16.v.87.

MCLEAN, I.F.G. — A female solitary bee *Andrena hattorfiana* (F.) taken on a Field Scabious flower growing by the roadside at Foxhole Heath, Suffolk, 15.viii.87.

MILES, S.R. — Some local solitary bees taken in recent years. These were a female *Andrena hattorfiana* (F.) taken 9.viii.86 on a Field Scabious flower at Croxton Heath, Norfolk; a female *A. fulvago* (Christ) taken 3.vii.85 at Dolebury Warren, Avon; a male *A. bucephala* Steph. on hawthorn blossom, 7.vi.86, at Windsor Forest, and a female on sycamore blossom, 16.v.87, at Windsor Great Park, Berks.; a male *Melitta dimidiata* Morawitz from Tilshead, Salisbury Plain, Wilts., 5.vii.86. The last species was first taken in Britain in 1949 and is only found in the Salisbury Plain area. The exhibitor noted that on a dull afternoon five males were seen at rest on a field scabious flower and three males on a flower of greater knapweed. Such congregations had not previously been observed in this species. The females are associated with sainfoin.

NATURE CONSERVANCY COUNCIL — a display of notable insects found at Risby

Warren, South Humberside. This included *Hedychridium cupreum* (Dahlbom) (Chrysididae) taken on dune areas with bare sand.

NEUROPTERA, MEGALOPTERA AND MECOPTERA

Neuroptera were well represented this year, with several examples of the hook winged lacewing being exhibited. This scarce species does seem to have become more frequent in recent years. A species new to Britain was exhibited by Colin Plant.

ALBERTINI, M. and HALL, P. — A specimen of *Drepanepteryx phalaenoides* (L.) taken 21.viii.87 at mercury vapour light amongst mature scrub on the Chiltern escarpment at Bacombe Hill, near Wendover, Bucks.

COLLINS, G.A. — A specimen of *Drepanepteryx phalaenoides* (L.) beaten from oak at Croham Hurst, Surrey, on 20.ix.87. This is the fourth recent record from the Croydon area.

O'KEEFE, D. — A male *Drepanepteryx phalaenoides* (L.) taken at a mercury vapour trap at Petts Wood, Kent, on 1.x.87.

PLANT, C. — *Hemerobius fenestratus* (Tjeder) (Neuroptera: Hemerobiidae), a species new to Britain. The specimen was collected during the BENHS field meeting at Etchden Wood, Kent, on 9.ix.86. It is similar to *H. contumax* (Tjeder) and *H. pini* (Steph.), both of which occur in Britain. A paper is in preparation which will add this lacewing to the British list and provide a key for separating these three species. Also exhibited on behalf of the Passmore Edwards Museum (Essex Biological Records Centre) was a case of the 38 species of Megaloptera, Neuroptera and Mecoptera recorded in Essex since 1980, with distribution maps based on 10-km squares. These are Megaloptera: *Raphidia cognata* Rambur, *R. notata* F.; *R. xanthostigma* Schummel, *Sialis lutaria* (L.); Neuroptera: *Sisyra fuscata* (F.), *Conwentzia pineticola* Endelein, *C. psociformis* (Curt.), *Semidalis aleyrodiformis* (Steph.), *Parasemidalis fuscipennis* (Reuter), *Coniopteryx borealis* (Tjeder), *C. tineiformis* Curt., *Psectra diptera* (Burmeister), *Micromus variegatus* (F.), *M. paganus* (L.), *Hemerobius humulinus* L., *H. lutescens* F., *H. micans* Oliv., *H. nitidulus* F., *H. stigma* Steph., *Symphorobius elegans* (Steph.), *S. pellucidus* (Walk.), *S. pygmaeus* (Rambur), *Wesmaelius betulinus* (Ström), *W. subnebulosus* (Steph.), *Chrysopa albolineata* Killington, *C. carnea* Steph., *C. ciliata* (Wesm.), *C. commata* Kisdujhelyi, *C. flava* (Scop.), *C. flavifrons* Brauer, *C. perla* (L.), *C. septempunctata* Wesm., *C. ventralis* Curt., *C. prasina* Burmeister, *C. vittata* Wesm., *Nothochrysa capitata* F.; Mecoptera: *Panorpa communis* L., *P. germanica* L. The county has an active recording scheme for these groups and further Essex records or specimens with data for identification are invited by the exhibitor.

ORTHOPTERA

CLEMENTS, D.K. and ALEXANDER, K.N.A. — Two examples of the rare macropterous form *burri* Ebner of *Conocephalus dorsalis* (Latr.) (Tettigoniidae). One specimen was an extreme form taken at Newtown, Isle of Wight, 18.viii.82; the other was intermediate with the normal short-winged form and came from Winchelsea, East Sussex, 11.vi.87.

ARACHNIDA

BARRINGTON, R.D.G. — A case of insects collected on Corfu in June, 1987, which included the poisonous scorpion, *Buthus occitanus*.

ILLUSTRATIONS

BARRINGTON, R.D.G. — Two water colour paintings of (1) the Little Owl and (2) the Large Tortoiseshell butterfly.

BENHS — A light box showing colour transparencies taken by nine members of the Society. The slides depicted a wide range of natural history subjects taken abroad and in the British Isles. A list of the slides shown by members is lodged in the Society's rooms.

GREATOREX-DAVIS, N. and WESTWOOD, N. — A display incorporating maps and photographs of the habitats of butterflies from France and the Pyrenees. Accompanying the display were several drawers of specimens collected in those areas with information about the habitats.

MANNING, D.V. — Photographs of some microlepidoptera taken in Bedfordshire.

NATURE CONSERVANCY COUNCIL — A stand exhibiting maps and illustrations covering the work of those concerned with the Invertebrate Site Register of the British Isles in all its aspects.

OWENS, D.J.M. and J.W. — Photographs of Red Data Book beetles from various localities in the British Isles.

PORTER, J. and CHURCH, S.H. — Photographs of the larvae of British Macrolepidoptera. This comprehensive collection, built up over the years requires approximately 56 species to complete the series. Also shown were photographs of the greater proportion of the imagines of the British Macrolepidoptera.

REVELS, R. — An exhibit of colour photographs of a wide variety of the fauna and flora of the British Isles.

ROBINSON, G.S. — A display entitled 'Keratin moths and fungi in Asian rain forests', including a map and four paintings in colour of Tineidae moths associated with raptor pellets, carnivore faeces, feathers and small rodent and bird corpses. The keratin and fungi appear to be an association conducive to larval feeding.

RUSSELL, M. — Several large scale and finely detailed drawings in colour of various weevils, plus others of a variety of natural history subjects.

STUBBS, A. — Photographs of stratiomyid larvae and some of their various food sources—Grass cuttings, flooded areas, old grapefruit skins etc.

TWEEDIE, M.W.F. — A very interesting series of photographs showing the tracks made by various arthropods running or moving over a smooth prepared surface of fine dry sand. Also shown were 24 colour transparencies of British geometrid moths.